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* * * * * Welcome to STN International * * * * *

| | | | |
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| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
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| NEWS | 4 | JUL 02 | CHEMCATS accession numbers revised |
| NEWS | 5 | JUL 02 | CA/CAPplus enhanced with utility model patents from China |
| NEWS | 6 | JUL 16 | CAPplus enhanced with French and German abstracts |
| NEWS | 7 | JUL 18 | CA/CAPplus patent coverage enhanced |
| NEWS | 8 | JUL 26 | USPATFULL/USPAT2 enhanced with IPC reclassification |
| NEWS | 9 | JUL 30 | USGENE now available on STN |
| NEWS | 10 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
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| NEWS | 24 | OCT 19 | BEILSTEIN updated with new compounds |
| NEWS EXPRESS | 19 | SEPTEMBER 2007: | CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007. |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
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=> fil caplus

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|----------------------|------------------|---------------|
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FILE COVERS 1907 - 12 Nov 2007 VOL 147 ISS 21

FILE LAST UPDATED: 11 Nov 2007 (20071111/ED)

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=> e us 2006-596419/apps

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| E8 | 1 | US2006-596436/AP |
| E9 | 1 | US2006-596438/AP |
| E10 | 1 | US2006-596447/AP |
| E11 | 1 | US2006-596450/AP |
| E12 | 1 | US2006-596454/AP |

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E1 THROUGH E472 ASSIGNED

=> fil reg

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STRUCTURE FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4
 DICTIONARY FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4

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<http://www.cas.org/support/stngen/stndoc/properties.html>

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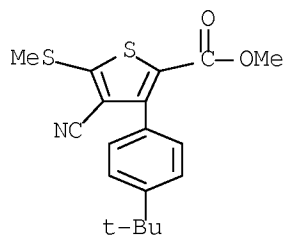
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=> d scan

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylthio)-, methyl ester
 MF C18 H19 N O2 S2



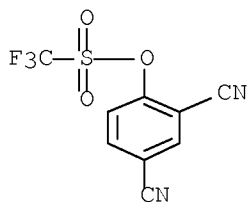
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d scan

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

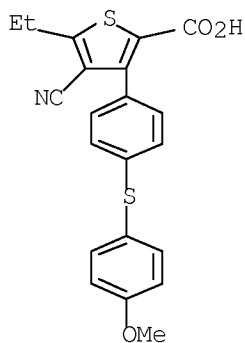
IN Methanesulfonic acid, trifluoro-, 2,4-dicyanophenyl ester (9CI)
MF C9 H3 F3 N2 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

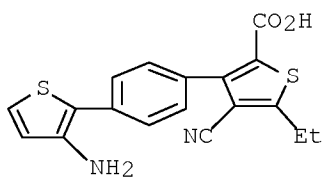
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(4-methoxyphenyl)thio]phenyl]-
MF C21 H17 N O3 S2



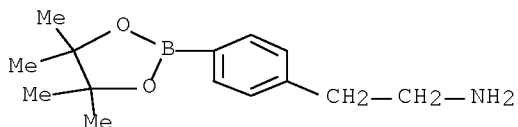
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Thiophenecarboxylic acid, 3-[4-(3-amino-2-thienyl)phenyl]-4-cyano-5-ethyl-
MF C18 H14 N2 O2 S2



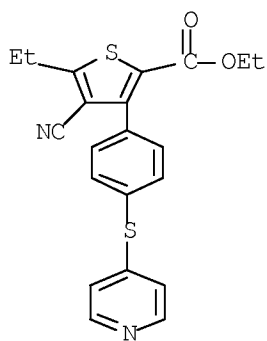
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzeneethanamine, 4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (9CI)
 MF C14 H22 B N O2
 CI COM



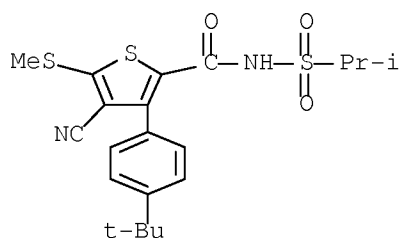
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4-pyridinylthio)phenyl]-
 , ethyl ester
 MF C21 H18 N2 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 472 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-[(1-methylethyl)sulfonyl]-5-(methylthio)-
 MF C20 H24 N2 O3 S3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l2 and ?thiophene?

LEFT TRUNCATION IGNORED FOR FILE 'REGISTRY'

454937 THIOPHENE?

L3 387 L2 AND ?THIOPHENE?

Left truncation is not valid in the specified search field in the specified file. The term has been searched without left truncation.

Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID' would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you used a truncation symbol after a punctuation mark, the system may interpret the truncation symbol as being at the beginning of a term. Implied proximity is used in search fields indexed as single words, for example, the Basic Index.

=> s l3 and ?cyano?

LEFT TRUNCATION IGNORED FOR FILE 'REGISTRY'

795625 CYANO?

L4 354 L3 AND ?CYANO?

Left truncation is not valid in the specified search field in the specified file. The term has been searched without left truncation.

Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID' would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you used a truncation symbol after a punctuation mark, the system may interpret the truncation symbol as being at the beginning of a term. Implied proximity is used in search fields indexed as single words, for example, the Basic Index.

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

13.05

16.76

FILE 'CAPLUS' ENTERED AT 19:49:19 ON 12 NOV 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 12 Nov 2007 VOL 147 ISS 21
FILE LAST UPDATED: 11 Nov 2007 (20071111/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l4

L5 190 L4

=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.94 | 17.70 |

FILE 'REGISTRY' ENTERED AT 19:50:43 ON 12 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4
DICTIONARY FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s l4 and ?phenyl?

LEFT TRUNCATION IGNORED FOR FILE 'REGISTRY'
15757336 PHENYL?

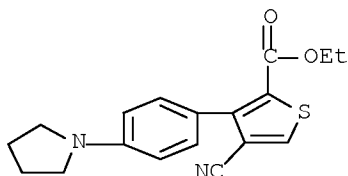
L6 334 L4 AND ?PHENYL?

Left truncation is not valid in the specified search field in the specified file. The term has been searched without left truncation. Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID' would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you used a truncation symbol after a punctuation mark, the system may interpret the truncation symbol as being at the beginning of a term. Implied proximity is used in search fields indexed as single words, for example, the Basic Index.

=> d scan

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-pyrrolidinyl)phenyl]-, ethyl ester
 MF C18 H18 N2 O2 S



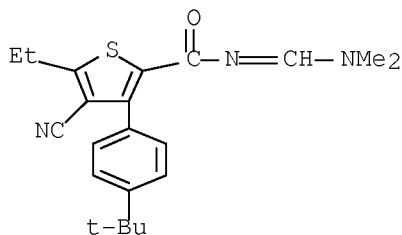
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d scan 5

'5' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxamide, 4-cyano-N-[(dimethylamino)methylene]-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl- (9CI)
 MF C21 H25 N3 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

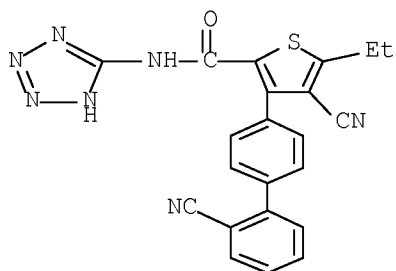
The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

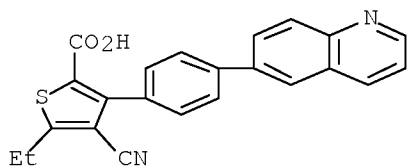
HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Thiophenecarboxamide, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-ethyl-N-1H-tetrazol-5-yl- (9CI)
MF C22 H15 N7 O S



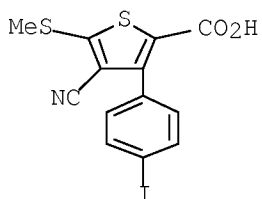
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(6-quinolinyl)phenyl]-
 MF C23 H16 N2 O2 S



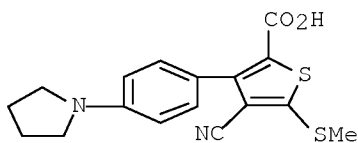
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(methylthio)-
 MF C13 H8 I N O2 S2



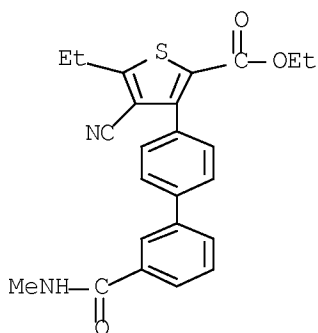
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-pyrrolidinyl)phenyl]-
 MF C17 H16 N2 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 334 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-[(methylamino)carbonyl][1,1'-biphenyl]-4-yl]-, ethyl ester
 MF C24 H22 N2 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> fil caplu

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

6.75

24.45

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(FILE 'HOME' ENTERED AT 19:43:08 ON 12 NOV 2007)

FILE 'CAPLUS' ENTERED AT 19:43:23 ON 12 NOV 2007
E US 2006-596419/APPS
L1 1 S E3
SEL RN L1

FILE 'REGISTRY' ENTERED AT 19:44:55 ON 12 NOV 2007
L2 472 S E1-E472
L3 387 S L2 AND ?THIOPHENE?
L4 354 S L3 AND ?CYANO?

FILE 'CAPLUS' ENTERED AT 19:49:19 ON 12 NOV 2007
L5 190 S L4

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L6 334 S L4 AND ?PHENYL?

FILE 'CAPLUS' ENTERED AT 19:53:10 ON 12 NOV 2007

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=> s 17 and (ay<2004 or py<2004 or pry<2004)

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23955850 PY<2004
4232386 PRY<2004
L8 0 L7 AND (AY<2004 OR PY<2004 OR PRY<2004)

=> s 17 and (ay<2005 or py<2005 or pry<2005)

5070963 AY<2005
25057543 PY<2005
4558192 PRY<2005
L9 1 L7 AND (AY<2005 OR PY<2005 OR PRY<2005)

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L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:874479 CAPLUS Full-text
DOCUMENT NUMBER: 145:454897

TITLE: A novel class of positive allosteric modulators of AMPA receptors: Design, synthesis, and structure-activity relationships of 3-biphenyl-4-yl-4-cyano-5-ethyl-1-methyl-1H-pyrrole-2-carboxylic acid, LY2059346

AUTHOR(S): Zarrinmayeh, Hamideh; Tromiczak, Eric; Zimmerman, Dennis M.; Rankl, Nancy; Ho, Ken H.; Dominguez, Esteban; Castano, Ana; Escribano, Ana; Fernandez, Carmen; Jimenez, Alma; Hornback, William J.; Nisenbaum, Eric S.

CORPORATE SOURCE: Lilly Research Laboratories, Elil Lilly and Co., Indianapolis, IN, 46285, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(19), 5203-5206
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

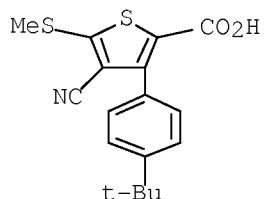
OTHER SOURCE(S): CASREACT 145:454897

AB The synthesis and structure-activity relation (SAR) of novel and highly potent pos. allosteric modulators of AMPA receptors, 3-biphenyl-4-yl-4-cyano-5-ethyl-1-methyl-1H-pyrrole-2-carboxylic acid, are described. Higher potency was achieved with ortho substitution of the distal (D) Ph of the 3-biphenyl ring and resulted in the discovery of a potent pyrrole LY2059346 (4-cyano-3-(2'-cyanobiphenyl-4-yl)-5-ethyl-1-methyl-1H-pyrrole-2-carboxylic acid), that was selected for further evaluation in in vitro native tissue assays and in vivo expts.

IT 861960-45-4, 3-(4-tert-Butylphenyl)-4-cyano-5-(methylthio)thiophene-2-carboxylic acid
RL: PAC (Pharmacological activity); BIOL (Biological study)
(design, synthesis, and structure-activity relationships of 3-(substituted biphenyl-4-yl)-4-cyano-5-Et-1-Me-1H-pyrrole-2-carboxylic acids as pos. allosteric modulators of AMPA receptors)

RN 861960-45-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:874416 CAPLUS Full-text

DOCUMENT NUMBER: 145:454889

TITLE: A novel class of AMPA receptor allosteric modulators. Part 1: Design, synthesis, and SAR of 3-aryl-4-cyano-5-substituted-heteroaryl-2-carboxylic acid derivatives

AUTHOR(S): Fernandez, Maria-Carmen; Castano, Ana; Dominguez,

Esteban; Escribano, Ana; Jiang, Delu; Jimenez, Alma;
Hong, Eric; Hornback, William J.; Nisenbaum, Eric S.;
Rankl, Nancy; Tromiczak, Eric; Vaught, Grant;
Zarrinmayeh, Hamideh; Zimmerman, Dennis M.

CORPORATE SOURCE: Avenida de la Industria, Lilly S.A., Madrid, 28108,
Spain

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),
16(19), 5057-5061

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:454889

AB The synthesis and initial SAR studies of novel, highly potent pos. allosteric modulators of AMPA receptors based on 3-(4-tert-butylphenyl)-4-cyano-5-methylsulfanylthiophene-2-carboxylic acid are described. SAR studies at the thioether moiety indicated that substitution at this position was mandatory and better potency was achieved with small groups.

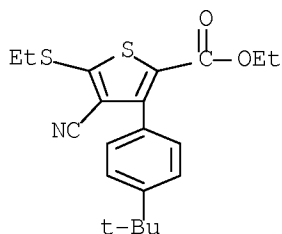
IT 861967-36-4P 861967-38-6P 861967-39-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 3-aryl-4-cyano-5-substituted-heteroaryl-2-carboxylic acids as AMPA receptor allosteric modulators)

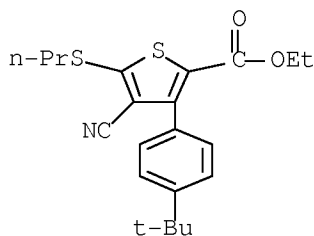
RN 861967-36-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(ethylthio)-, ethyl ester (CA INDEX NAME)



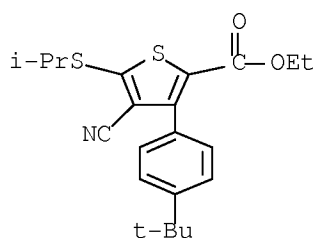
RN 861967-38-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(propylthio)-, ethyl ester (CA INDEX NAME)



RN 861967-39-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]-, ethyl ester (CA INDEX NAME)

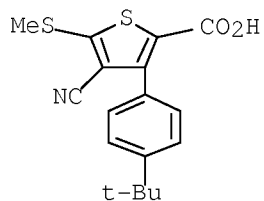


IT 861960-45-4P 861960-46-5P 861960-47-6P
 861960-49-8P 861960-52-3P 861960-54-5P
 861960-56-7P 861960-58-9P 861961-32-2P
 861961-64-0P 861962-23-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (preparation of 3-aryl-4-cyano-5-substituted-heteroaryl-2-carboxylic acids
 as AMPA receptor allosteric modulators)

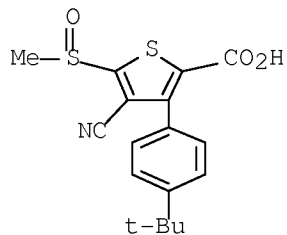
RN 861960-45-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylthio)- (CA INDEX NAME)



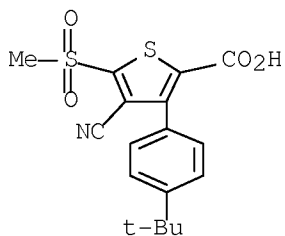
RN 861960-46-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylsulfinyl)- (CA INDEX NAME)



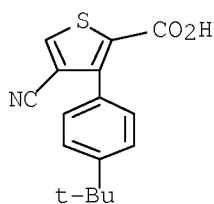
RN 861960-47-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylsulfonyl)- (CA INDEX NAME)



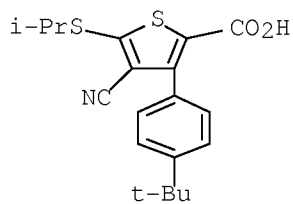
RN 861960-49-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



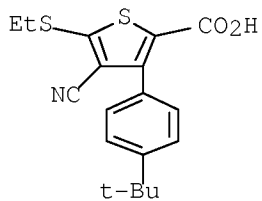
RN 861960-52-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]- (CA INDEX NAME)



RN 861960-54-5 CAPLUS

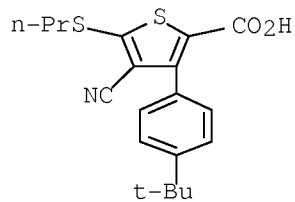
CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(ethylthio)- (CA INDEX NAME)



RN 861960-56-7 CAPLUS

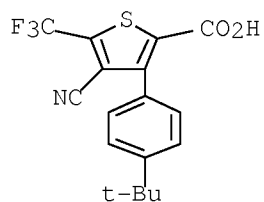
CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-

(propylthio)- (CA INDEX NAME)



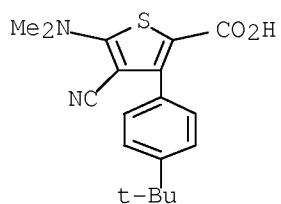
RN 861960-58-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)- (CA INDEX NAME)



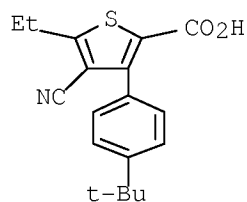
RN 861961-32-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



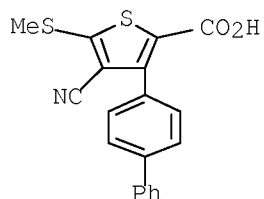
RN 861961-64-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl- (CA INDEX NAME)



RN 861962-23-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[1,1'-biphenyl]-4-yl-4-cyano-5-(methylthio)-
(CA INDEX NAME)



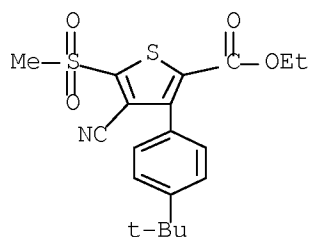
IT 861967-88-6P 861967-94-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of 3-aryl-4-cyano-5-substituted-heteroaryl-2-carboxylic acids
as AMPA receptor allosteric modulators)

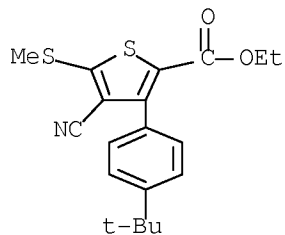
RN 861967-88-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
(methylsulfonyl)-, ethyl ester (CA INDEX NAME)



RN 861967-94-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
(methylthio)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:696900 CAPLUS Full-text

DOCUMENT NUMBER: 143:193903

TITLE: Preparation of thiophene and furan compounds for potentiating glutamate receptor function

INVENTOR(S): Castano Mansanet, Ana Maria; Dominguez-Manzanares, Esteban; Escribano, Ana Maria; Fernandez, Maria Carmen; Hornback, William Joseph; Jimenez-Aguado, Alma Maria; Tromiczak, Eric George; Wu, Zhipei; Zarrinmayeh, Hamideh; Zimmerman, Dennis Michael

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 249 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

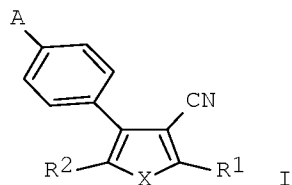
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2005070916 | A1 | 20050804 | WO 2005-US4 | 20050105 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1706395 | A1 | 20061004 | EP 2005-704861 | 20050105 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | |
| US 2007105852 | A1 | 20070510 | US 2006-596419 | 20060613 |
| PRIORITY APPLN. INFO.: | | | EP 2004-380005 | A 20040109 |
| | | | US 2004-552080P | P 20040310 |
| | | | WO 2005-US4 | W 20050105 |

OTHER SOURCE(S): MARPAT 143:193903

GI



AB The title compds. I [C = S, O; R1 = H, F, Cl, Br, I, CHO, etc.; R2 = CN, CO2H, C(O)NHOH, etc.; A = OH, Br, I, CF3, etc.; and their pharmaceutically acceptable salts], useful in treating schizophrenia, cognitive deficits associated with schizophrenia, Alzheimer's disease, dementia of the Alzheimer's type, mild cognitive impairment, or depression (no biol. data given), were prepared. Thus, the hydrolysis of the corresponding Et ester afforded the thiophene-2-carboxylic acid I [X = S; R1 = CF3; R2 = CO2H; A = 2-

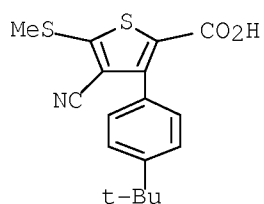
(MeS)C6H4]. The pharmaceutical composition comprising the compound I is disclosed.

IT 861960-45-4P 861961-38-8P 861961-44-6P
861961-56-0P 861961-58-2P 861961-64-0P
861961-68-4P 861962-75-6P 861963-03-3P
861963-70-4P 861964-06-9P 861964-53-6P
861964-58-1P 861964-76-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiophene and furan compds. for potentiating glutamate receptor function)

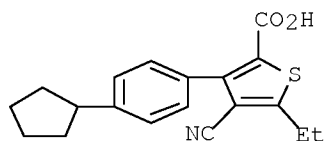
RN 861960-45-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



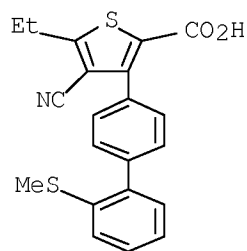
RN 861961-38-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-cyclopentylphenyl)-5-ethyl- (CA INDEX NAME)



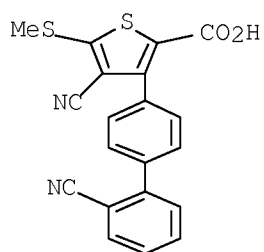
RN 861961-44-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



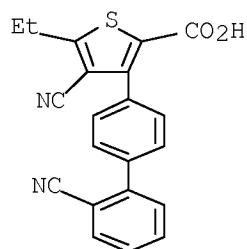
RN 861961-56-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



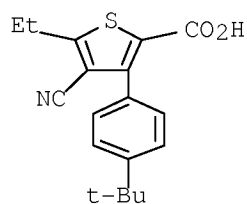
RN 861961-58-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



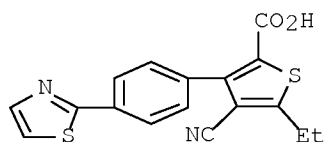
RN 861961-64-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl- (CA INDEX NAME)



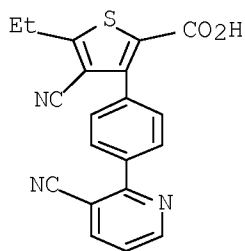
RN 861961-68-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-thiazolyl)phenyl]- (CA INDEX NAME)



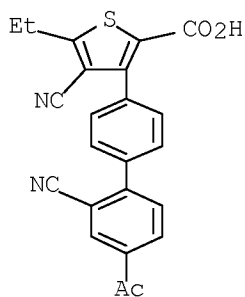
RN 861962-75-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(3-cyano-2-pyridinyl)phenyl]-5-ethyl- (CA INDEX NAME)



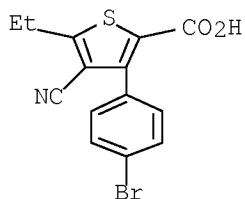
RN 861963-03-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4'-acetyl-2'-cyano[1,1'-biphenyl]-4-yl)-4-cyano-5-ethyl- (CA INDEX NAME)



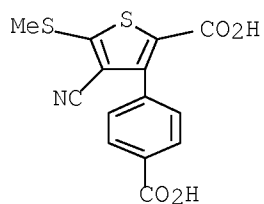
RN 861963-70-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-ethyl- (CA INDEX NAME)



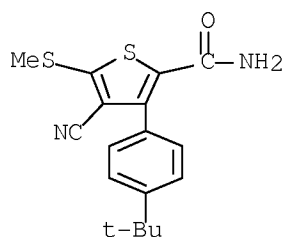
RN 861964-06-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-carboxyphenyl)-4-cyano-5-(methylthio)- (CA INDEX NAME)



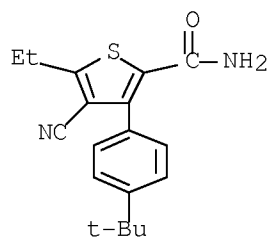
RN 861964-53-6 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



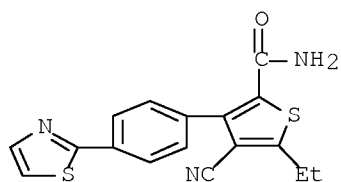
RN 861964-58-1 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl- (CA INDEX NAME)



RN 861964-76-3 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-[4-(2-thiazolyl)phenyl]- (CA INDEX NAME)



IT 861960-44-3P 861960-46-5P 861960-47-6P
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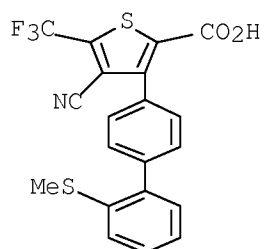
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
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 (Uses)

(preparation of thiophene and furan compds. for potentiating glutamate
 receptor function)

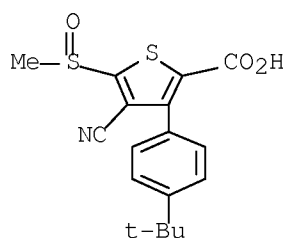
RN 861960-44-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-(methylthio)[1,1'-biphenyl]-4-
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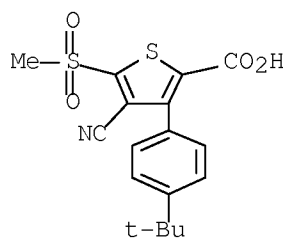
RN 861960-46-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylsulfinyl)- (CA INDEX NAME)



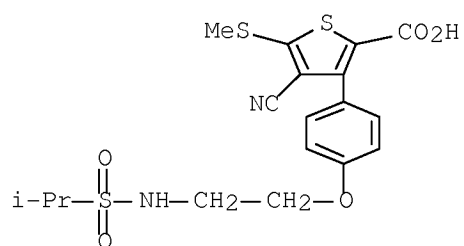
RN 861960-47-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
 (methylsulfonyl)- (CA INDEX NAME)



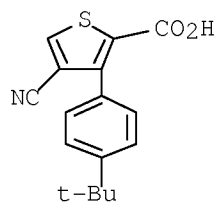
RN 861960-48-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-[[(1-methylethyl)sulfonyl]amino]ethoxy]phenyl]-5-(methylthio)- (CA INDEX NAME)



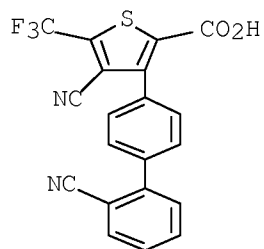
RN 861960-49-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



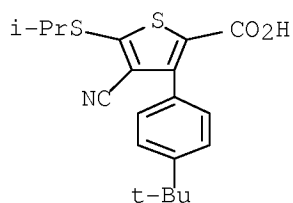
RN 861960-50-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-(trifluoromethyl)- (CA INDEX NAME)



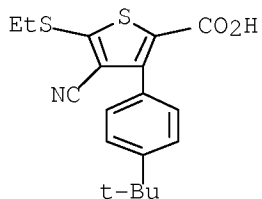
RN 861960-52-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]- (CA INDEX NAME)



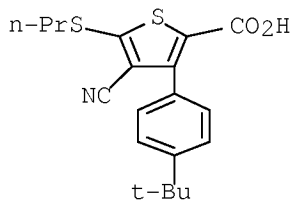
RN 861960-54-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(ethylthio)- (CA INDEX NAME)



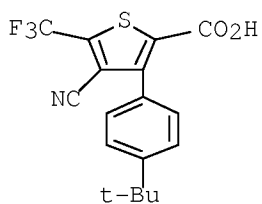
RN 861960-56-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(propylthio)- (CA INDEX NAME)



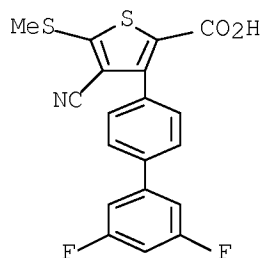
RN 861960-58-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)- (CA INDEX NAME)



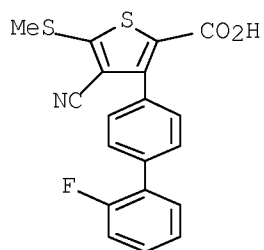
RN 861960-60-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(3',5'-difluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



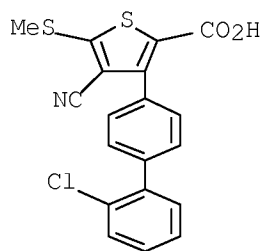
RN 861960-62-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-fluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



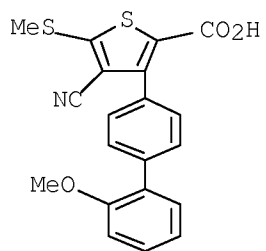
RN 861960-64-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(2'-chloro[1,1'-biphenyl]-4-yl)-4-cyano-5-(methylthio)- (CA INDEX NAME)



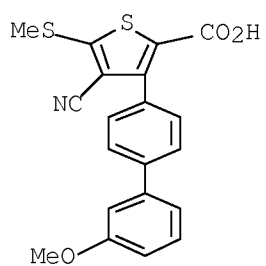
RN 861960-66-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-methoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



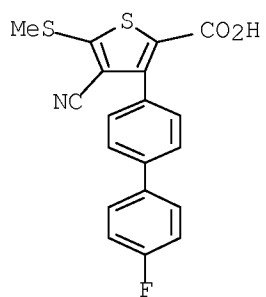
RN 861960-68-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(3'-methoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



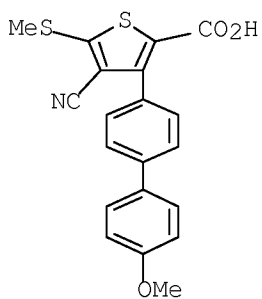
RN 861960-70-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4'-fluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



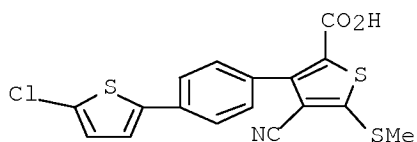
RN 861960-72-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4'-methoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



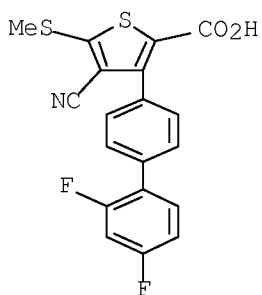
RN 861960-74-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-chloro-2-thienyl)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



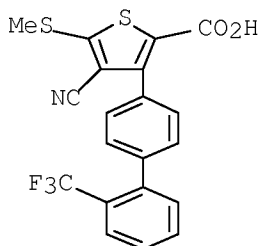
RN 861960-76-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2',4'-difluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



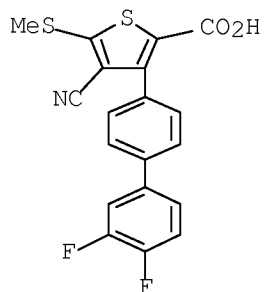
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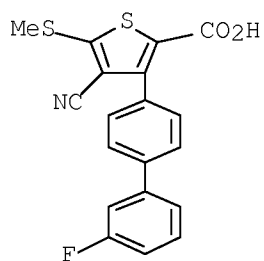
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(3',4'-difluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



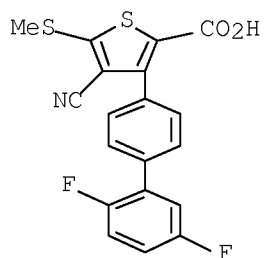
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(3'-fluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



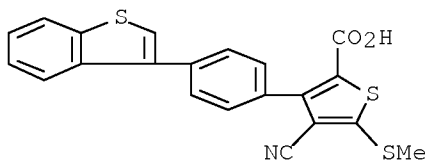
RN 861960-84-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2',5'-difluoro[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



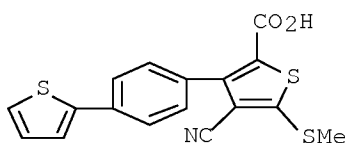
RN 861960-86-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-benzo[b]thien-3-ylphenyl)-4-cyano-5-(methylthio)- (CA INDEX NAME)



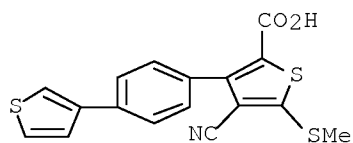
RN 861960-88-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(2-thienyl)phenyl]-
(CA INDEX NAME)



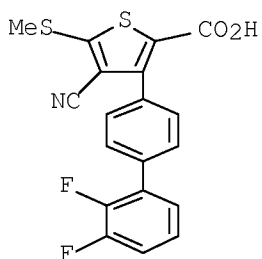
RN 861960-90-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(3-thienyl)phenyl]-
(CA INDEX NAME)



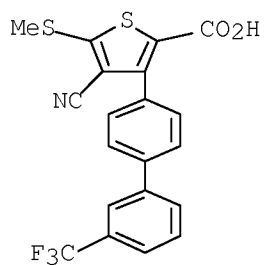
RN 861960-92-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2',3'-difluoro[1,1'-biphenyl]-4-yl)-
5-(methylthio)- (CA INDEX NAME)



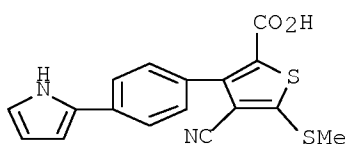
RN 861960-94-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



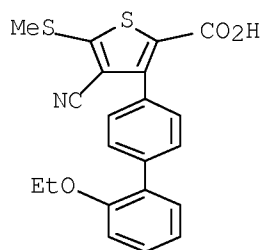
RN 861960-96-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1H-pyrrol-2-yl)phenyl]- (CA INDEX NAME)



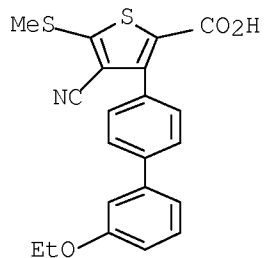
RN 861960-98-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-ethoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



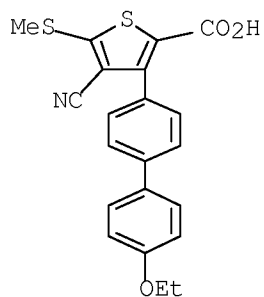
RN 861961-00-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(3'-ethoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



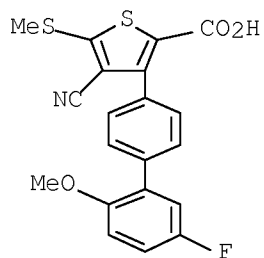
RN 861961-02-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4'-ethoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



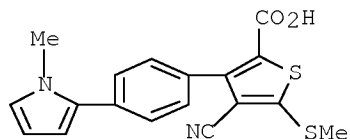
RN 861961-04-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(5'-fluoro-2'-methoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



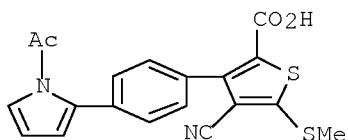
RN 861961-06-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-methyl-1H-pyrrol-2-yl)phenyl]-5-(methylthio)- (CA INDEX NAME)



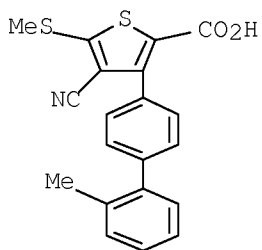
RN 861961-08-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(1-acetyl-1H-pyrrol-2-yl)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



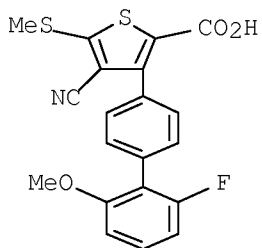
RN 861961-10-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-methyl[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



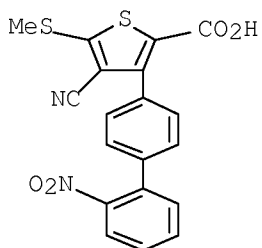
RN 861961-12-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-fluoro-6'-methoxy[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



RN 861961-14-0 CAPLUS

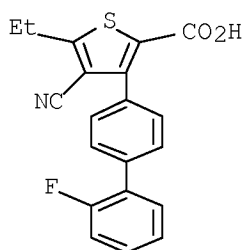
CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-(2'-nitro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



RN 861961-16-2 CAPLUS

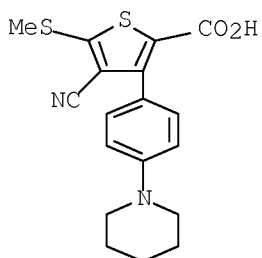
CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(2'-fluoro[1,1'-biphenyl]-4-

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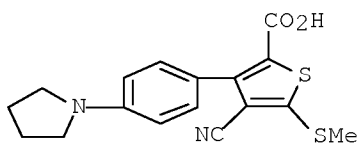
RN 861961-18-4 CAPLUS

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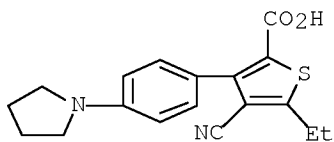
RN 861961-20-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)



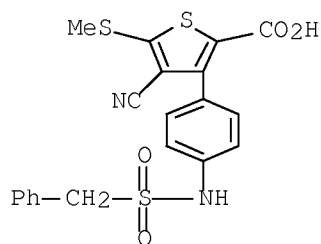
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)



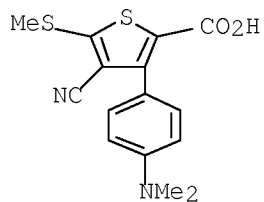
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-
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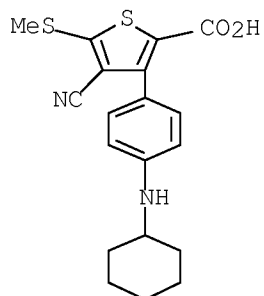
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(dimethylamino)phenyl]-5-
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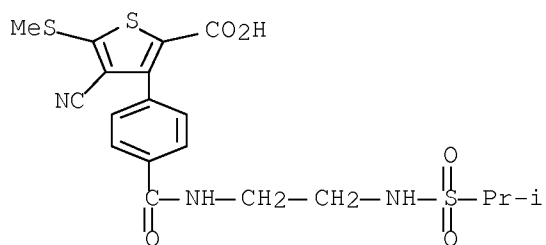
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclohexylamino)phenyl]-5-
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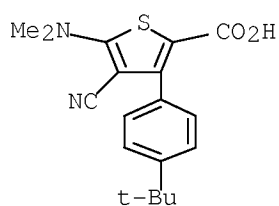
RN 861961-30-0 CAPLUS

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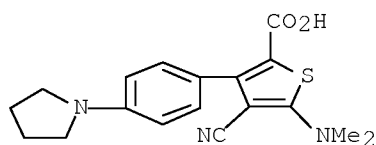
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



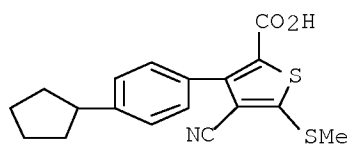
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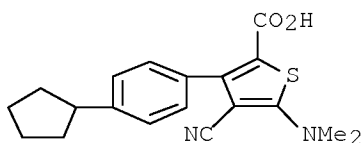
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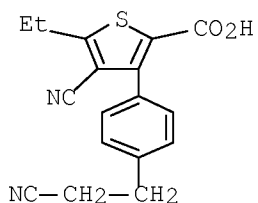
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-cyclopentylphenyl)-5-(dimethylamino)- (CA INDEX NAME)



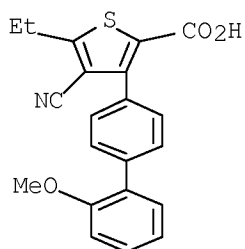
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyanoethyl)phenyl]-5-ethyl-
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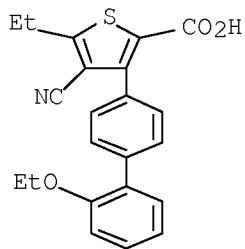
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(2'-methoxy[1,1'-biphenyl]-4-yl)-
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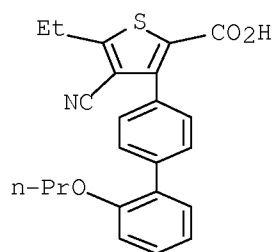
RN 861961-48-0 CAPLUS

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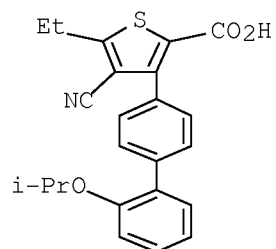
RN 861961-50-4 CAPLUS

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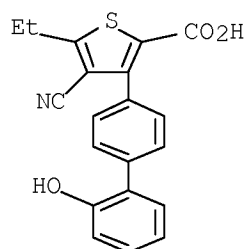
RN 861961-52-6 CAPLUS

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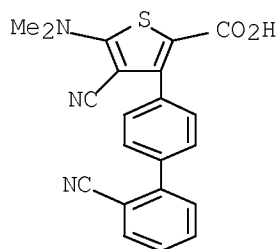
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(2'-hydroxy[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



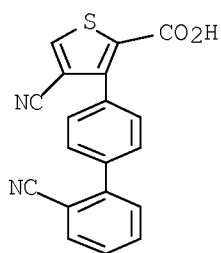
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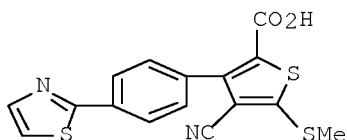
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



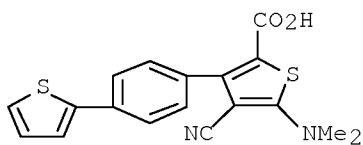
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(2-thiazolyl)phenyl]- (CA INDEX NAME)



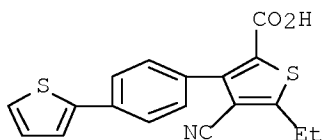
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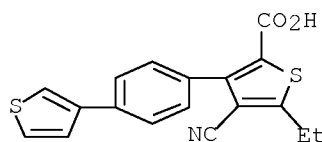
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-thienyl)phenyl]- (CA INDEX NAME)



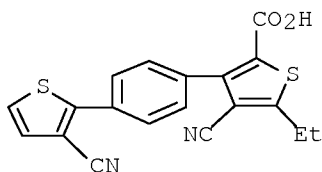
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(3-thienyl)phenyl]- (CA INDEX NAME)



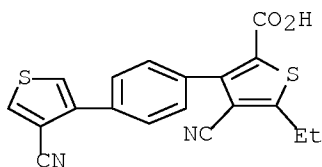
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(3-cyano-2-thienyl)phenyl]-5-ethyl- (CA INDEX NAME)



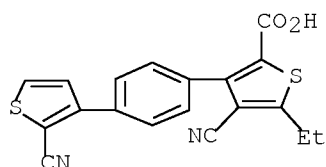
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(4-cyano-3-thienyl)phenyl]-5-ethyl- (CA INDEX NAME)



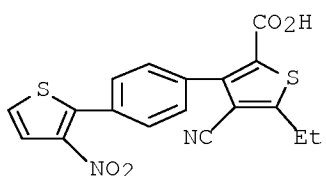
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyano-3-thienyl)phenyl]-5-ethyl- (CA INDEX NAME)



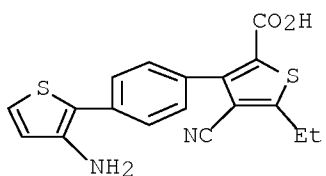
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(3-nitro-2-thienyl)phenyl]- (CA INDEX NAME)



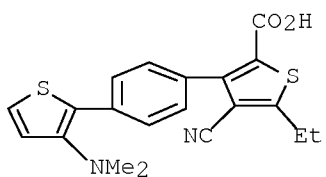
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CN 2-Thiophenecarboxylic acid, 3-[4-(3-amino-2-thienyl)phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



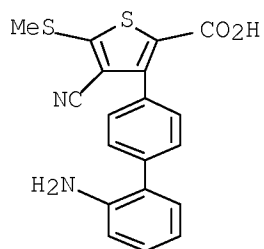
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[3-(dimethylamino)-2-thienyl]phenyl]-5-ethyl- (CA INDEX NAME)



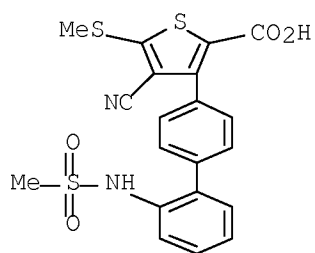
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CN 2-Thiophenecarboxylic acid, 3-(2'-amino[1,1'-biphenyl]-4-yl)-4-cyano-5-(methylthio)- (CA INDEX NAME)



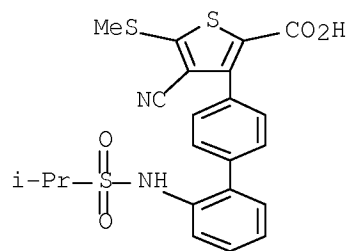
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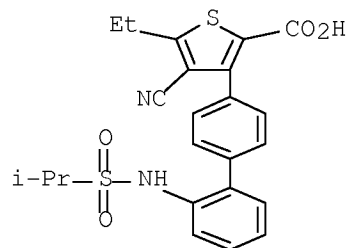
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-[[1-(methylethyl)sulfonyl]amino][1,1'-biphenyl]-4-yl]-5-(methylthio)- (CA INDEX NAME)



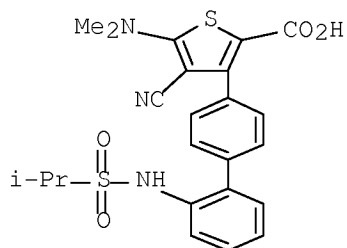
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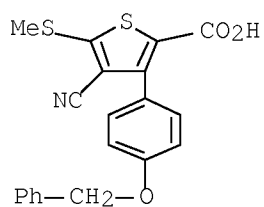
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-[2'-[[[(1-methylethyl)sulfonyl]amino][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



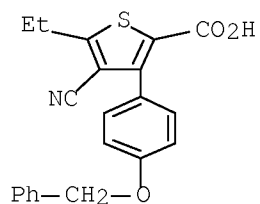
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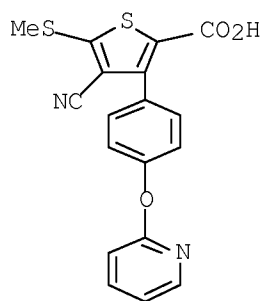
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(phenylmethoxy)phenyl]- (CA INDEX NAME)



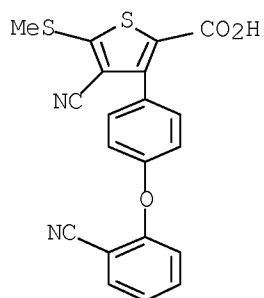
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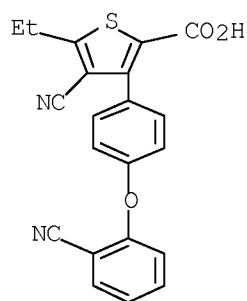
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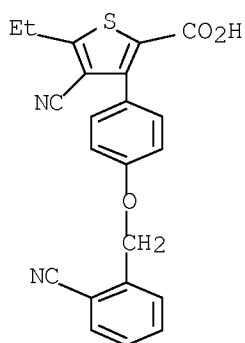
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyanophenoxy)phenyl]-5-ethyl- (CA INDEX NAME)



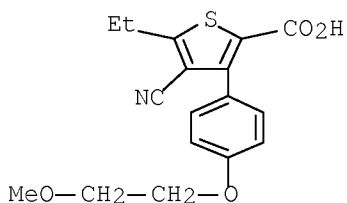
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyanophenyl)methoxy]phenyl]-5-ethyl- (CA INDEX NAME)



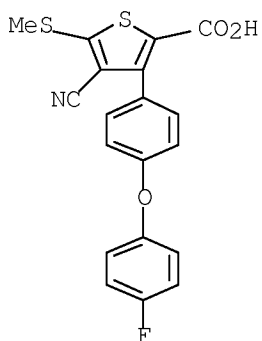
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-methoxyethoxy)phenyl]-
(CA INDEX NAME)



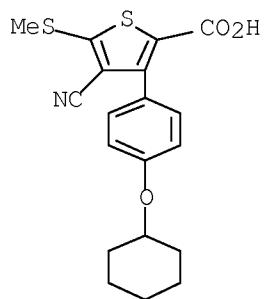
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(4-fluorophenoxy)phenyl]-5-
(methylthio)- (CA INDEX NAME)



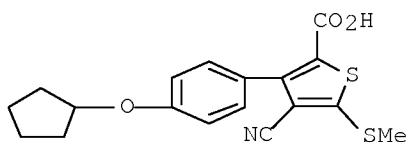
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclohexyloxy)phenyl]-5-
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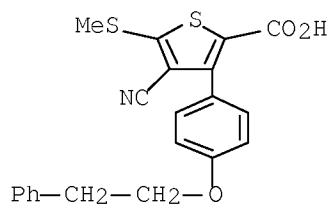
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclopentyloxy)phenyl]-5-(methylthio)- (CA INDEX NAME)



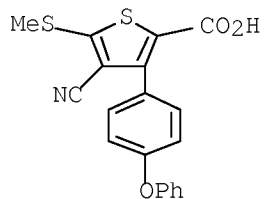
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(2-phenylethoxy)phenyl]- (CA INDEX NAME)



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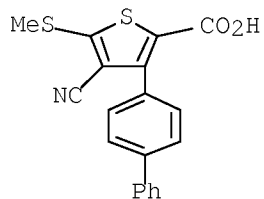
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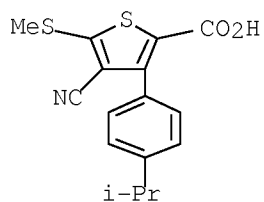
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(CA INDEX NAME)



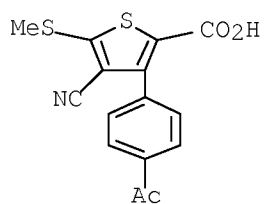
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-methylethyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



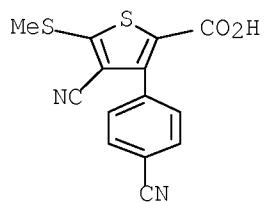
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CN 2-Thiophenecarboxylic acid, 3-(4-acetylphenyl)-4-cyano-5-(methylthio)- (CA INDEX NAME)

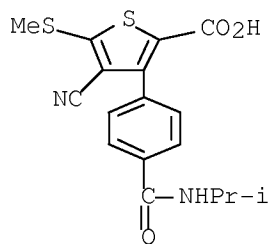


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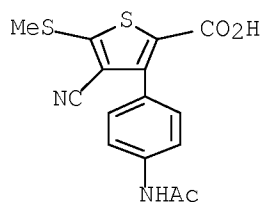
CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-cyanophenyl)-5-(methylthio)- (CA INDEX NAME)



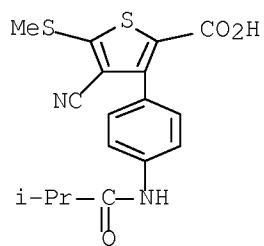
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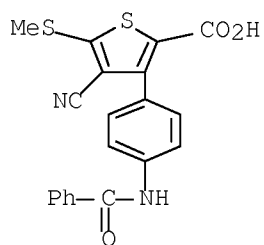
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 CN 2-Thiophenecarboxylic acid, 3-[4-(acetylamino)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



RN 861962-35-8 CAPLUS
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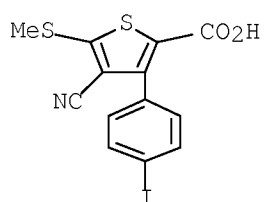


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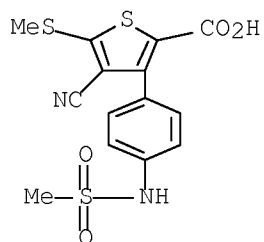
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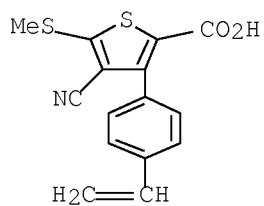
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(methylsulfonyl)amino]phenyl]-5-(methylthio)- (CA INDEX NAME)



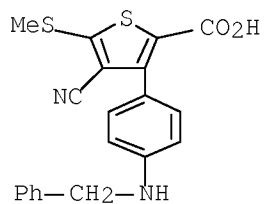
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-ethenylphenyl)-5-(methylthio)- (CA INDEX NAME)



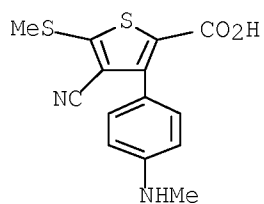
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-
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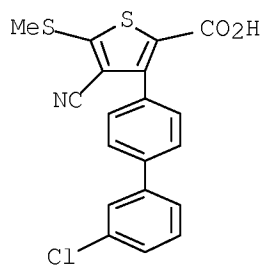
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(methylamino)phenyl]-5-
(methylthio)- (CA INDEX NAME)



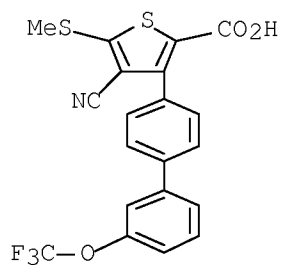
RN 861962-49-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(3'-chloro[1,1'-biphenyl]-4-yl)-4-cyano-5-
(methylthio)- (CA INDEX NAME)



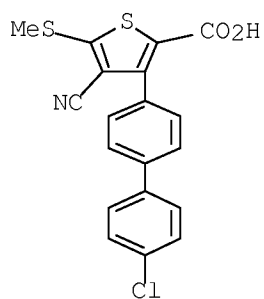
RN 861962-51-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[3'-
(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



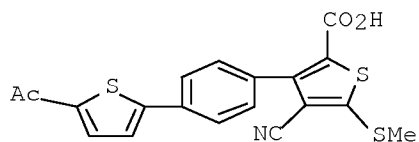
RN 861962-53-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4'-chloro[1,1'-biphenyl]-4-yl)-4-cyano-5-(methylthio)- (CA INDEX NAME)



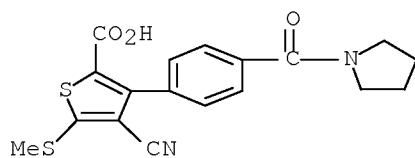
RN 861962-55-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-acetyl-2-thienyl)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



RN 861962-57-4 CAPLUS

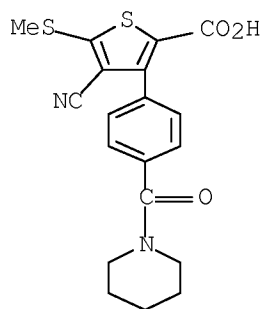
CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)



RN 861962-59-6 CAPLUS

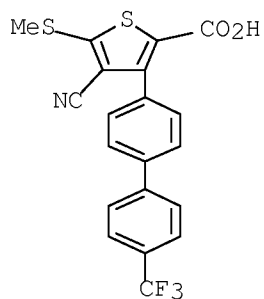
CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-

piperidinylcarbonyl)phenyl]- (CA INDEX NAME)



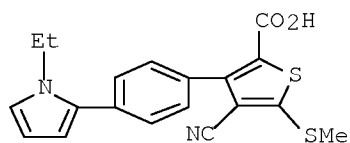
RN 861962-61-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



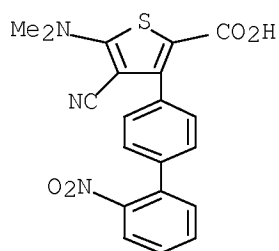
RN 861962-63-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-ethyl-1H-pyrrol-2-yl)phenyl]-5-(methylthio)- (CA INDEX NAME)



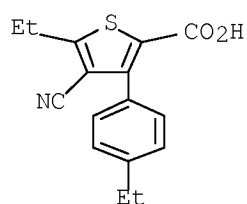
RN 861962-65-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-(2'-nitro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



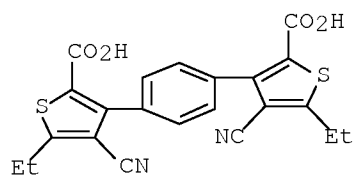
RN 861962-67-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-ethylphenyl)- (CA INDEX NAME)



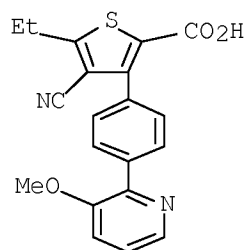
RN 861962-69-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 3,3'-(1,4-phenylene)bis[4-cyano-5-ethyl- (CA INDEX NAME)



RN 861962-71-2 CAPLUS

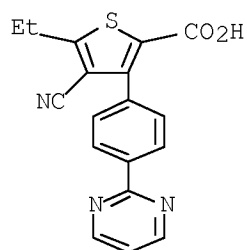
CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(3-methoxy-2-pyridinyl)phenyl]- (CA INDEX NAME)



RN 861962-73-4 CAPLUS

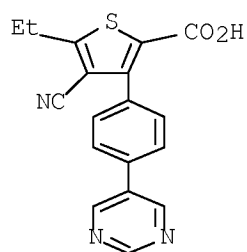
CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-pyrimidinyl)phenyl]-

(CA INDEX NAME)



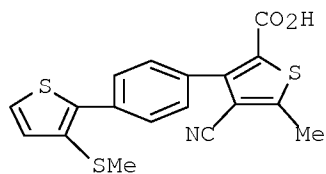
RN 861962-77-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(5-pyrimidinyl)phenyl]-
(CA INDEX NAME)



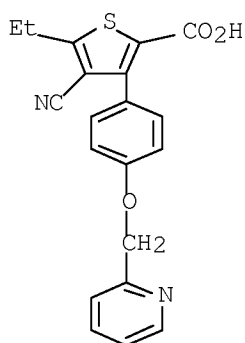
RN 861962-79-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-methyl-3-[4-[3-(methylthio)-2-
thienyl]phenyl]- (CA INDEX NAME)



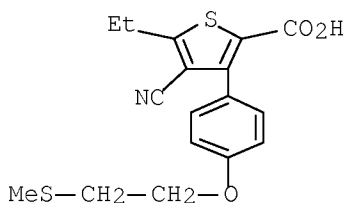
RN 861962-81-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-
pyridinylmethoxy)phenyl]- (CA INDEX NAME)



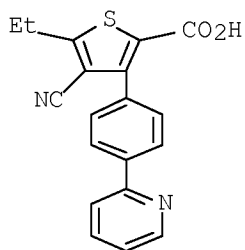
RN 861962-83-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[2-(methylthio)ethoxy]phenyl]- (CA INDEX NAME)



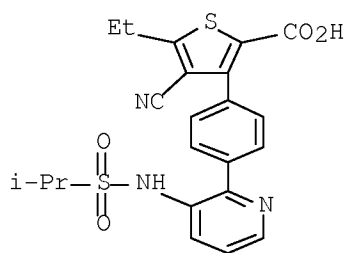
RN 861962-85-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-pyridinyl)phenyl]- (CA INDEX NAME)



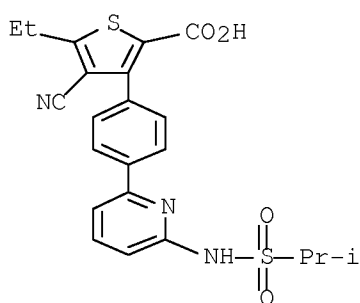
RN 861962-87-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[3-[[[1-(methylethyl)sulfonyl]amino]-2-pyridinyl]phenyl]- (CA INDEX NAME)



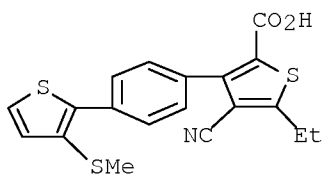
RN 861962-89-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[6-[(1-methylethyl)sulfonyl]amino]-2-pyridinyl]phenyl]- (CA INDEX NAME)



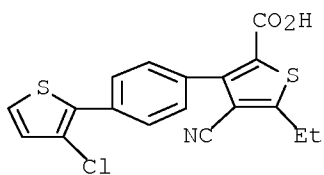
RN 861962-91-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[3-(methylthio)-2-thienyl]phenyl]- (CA INDEX NAME)



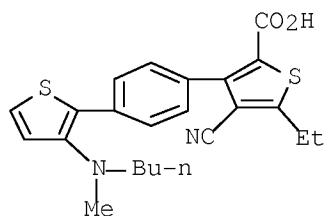
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CN 2-Thiophenecarboxylic acid, 3-[4-(3-chloro-2-thienyl)phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



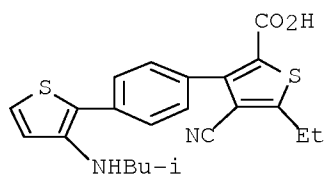
RN 861962-95-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[3-(butylmethylamino)-2-thienyl]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



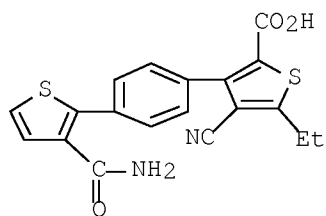
RN 861962-97-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[3-[(2-methylpropyl)amino]-2-thienyl]phenyl]- (CA INDEX NAME)



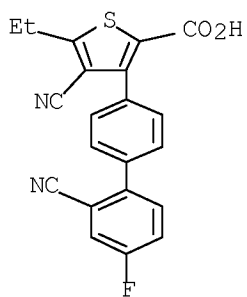
RN 861962-99-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[3-(aminocarbonyl)-2-thienyl]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



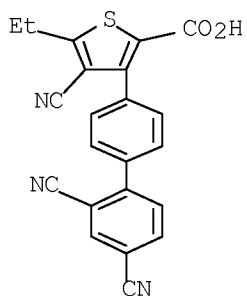
RN 861963-01-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano-4'-fluoro[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



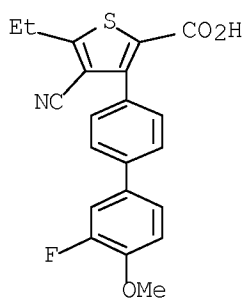
RN 861963-05-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2',4'-dicyano[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



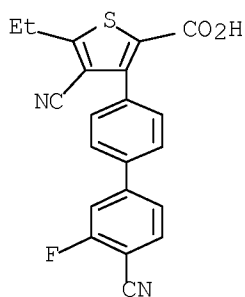
RN 861963-07-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(3'-fluoro-4'-methoxy[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



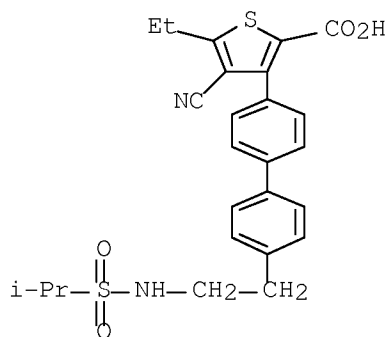
RN 861963-09-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4'-cyano-3'-fluoro[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



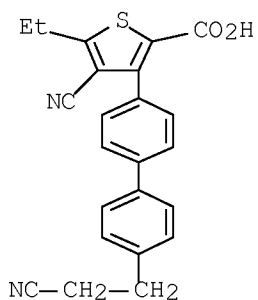
RN 861963-11-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-[2-[[[(1-methylethyl)sulfonyl]amino]ethyl][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



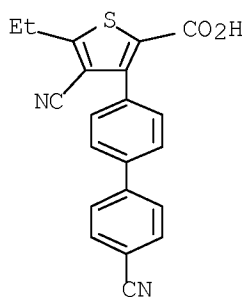
RN 861963-13-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4'-(2-cyanoethyl)[1,1'-biphenyl]-4-yl]-5-ethyl- (CA INDEX NAME)



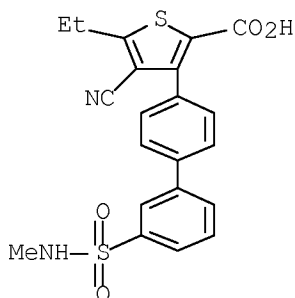
RN 861963-15-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4'-cyano[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



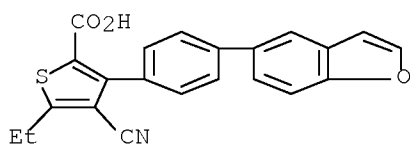
RN 861963-17-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-
[(methylamino)sulfonyl][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



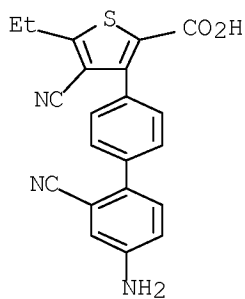
RN 861963-19-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-benzofuranyl)phenyl]-4-cyano-5-ethyl-
(CA INDEX NAME)



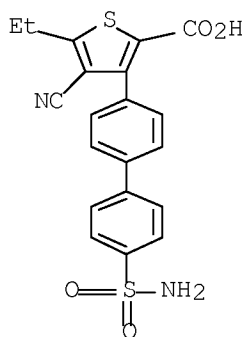
RN 861963-21-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4'-amino-2'-cyano[1,1'-biphenyl]-4-yl)-4-
cyano-5-ethyl- (CA INDEX NAME)



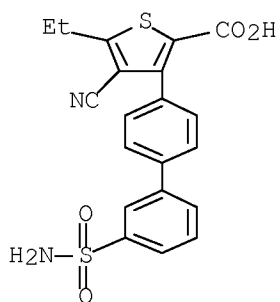
RN 861963-23-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



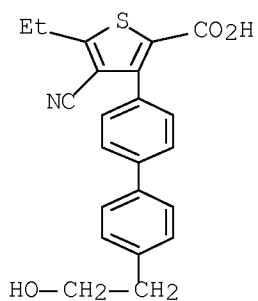
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CN 2-Thiophenecarboxylic acid, 3-[3'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



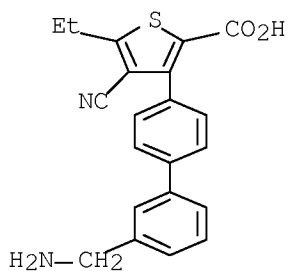
RN 861963-27-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-(2-hydroxyethyl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



RN 861963-29-3 CAPLUS

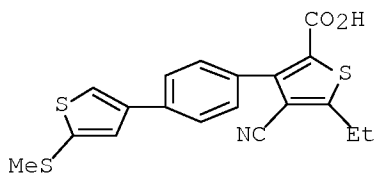
CN 2-Thiophenecarboxylic acid, 3-[3'-(aminomethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

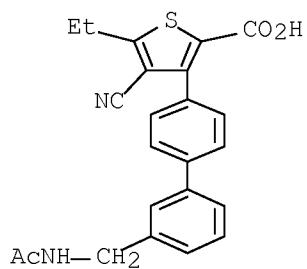
RN 861963-31-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[5-(methylthio)-3-thienyl]phenyl]- (CA INDEX NAME)

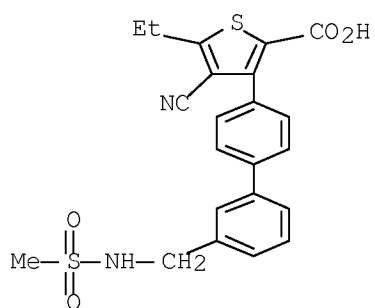


RN 861963-33-9 CAPLUS

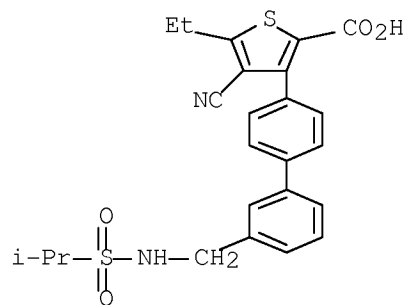
CN 2-Thiophenecarboxylic acid, 3-[3'-[(acetylamino)methyl][1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



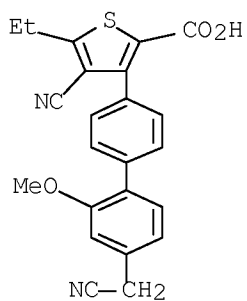
RN 861963-35-1 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-
 [(methanesulfonyl)amino]methyl][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



RN 861963-37-3 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-[[[(1-
 methylethyl)sulfonyl]amino]methyl][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)

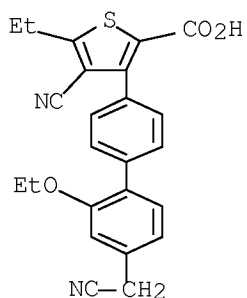


RN 861963-39-5 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4'-(cyanomethyl)-2'-methoxy[1,1'-
 biphenyl]-4-yl]-5-ethyl- (CA INDEX NAME)



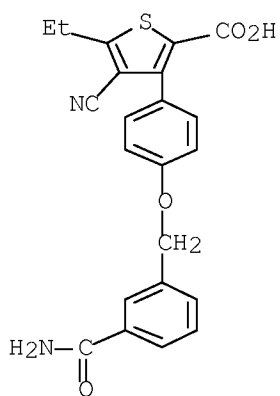
RN 861963-41-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4'-(cyanomethyl)-2'-ethoxy[1,1'-biphenyl]-4-yl]-5-ethyl- (CA INDEX NAME)



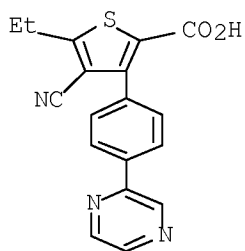
RN 861963-43-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[[3-(aminocarbonyl)phenyl]methoxy]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



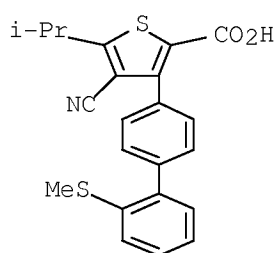
RN 861963-45-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-pyrazinylphenyl)- (9CI)
(CA INDEX NAME)



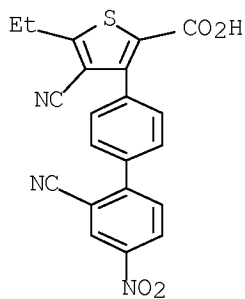
RN 861963-47-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(1-methylethyl)-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



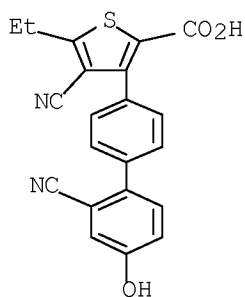
RN 861963-49-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano-4'-nitro[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



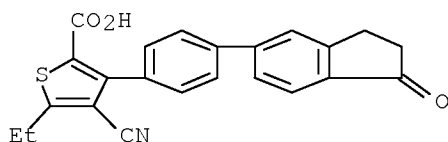
RN 861963-51-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano-4'-hydroxy[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



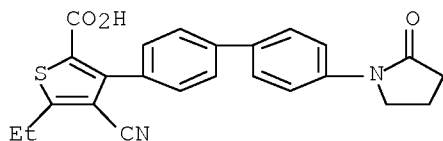
RN 861963-53-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2,3-dihydro-1-oxo-1H-inden-5-yl)phenyl]-5-ethyl- (CA INDEX NAME)



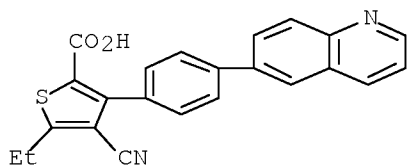
RN 861963-55-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-(2-oxo-1-pyrrolidinyl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



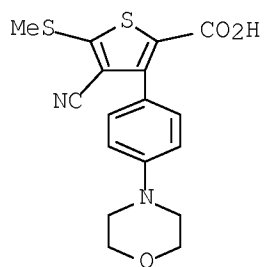
RN 861963-57-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(6-quinolinyl)phenyl]- (CA INDEX NAME)



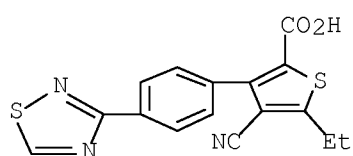
RN 861963-59-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 861963-61-3 CAPLUS

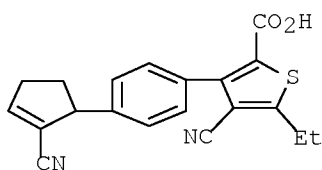
CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(1,2,4-thiadiazol-3-yl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

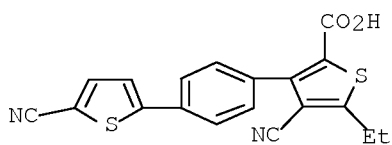
RN 861963-64-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyano-2-cyclopenten-1-yl)phenyl]-5-ethyl- (CA INDEX NAME)



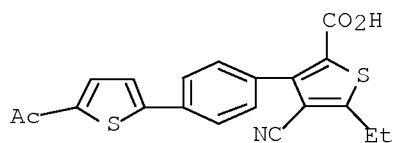
RN 861963-66-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(5-cyano-2-thienyl)phenyl]-5-ethyl- (CA INDEX NAME)



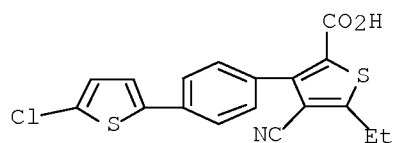
RN 861963-68-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-acetyl-2-thienyl)phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



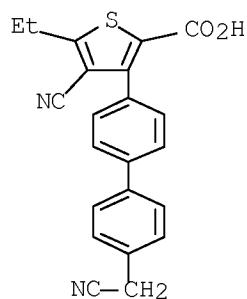
RN 861963-72-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-chloro-2-thienyl)phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



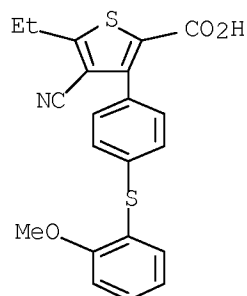
RN 861963-74-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4'-(cyanomethyl)[1,1'-biphenyl]-4-yl]-5-ethyl- (CA INDEX NAME)



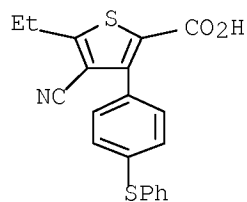
RN 861963-76-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(2-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



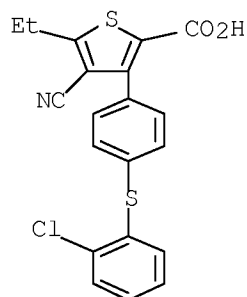
RN 861963-78-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(phenylthio)phenyl]- (CA INDEX NAME)



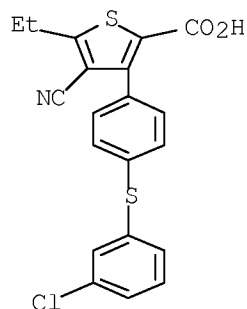
RN 861963-80-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[(2-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



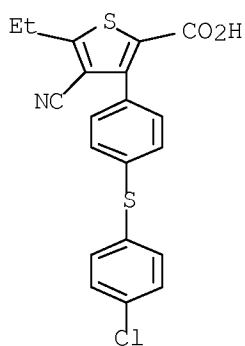
RN 861963-82-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[(3-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



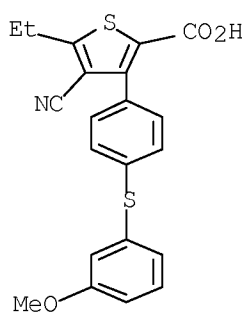
RN 861963-84-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[(4-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



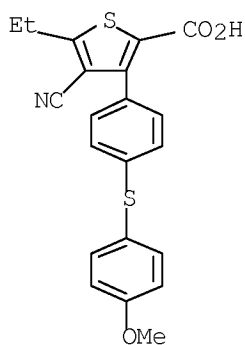
RN 861963-86-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(3-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



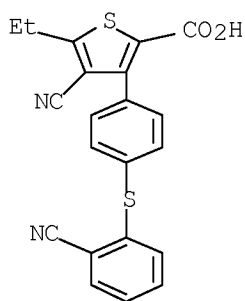
RN 861963-88-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(4-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



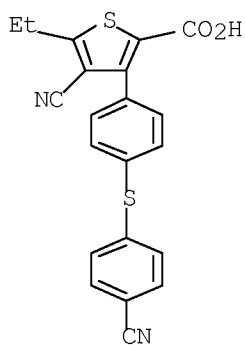
RN 861963-90-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyanophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



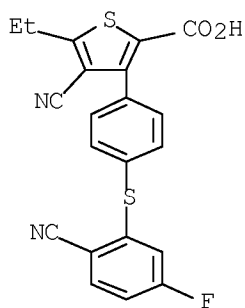
RN 861963-92-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(4-cyanophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



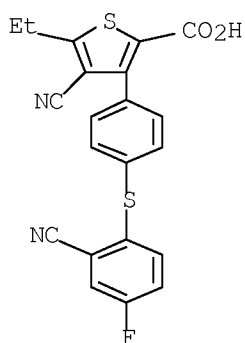
RN 861963-94-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyano-5-fluorophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



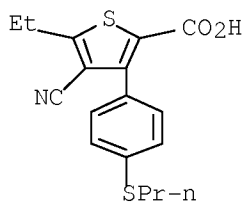
RN 861963-96-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyano-4-fluorophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



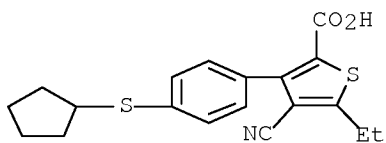
RN 861963-98-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(propylthio)phenyl]- (CA INDEX NAME)



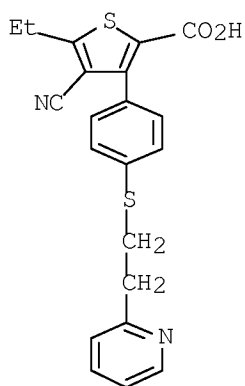
RN 861964-00-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclopentylthio)phenyl]-5-ethyl- (CA INDEX NAME)



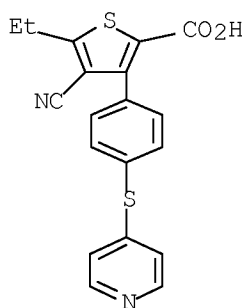
RN 861964-02-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[2-(2-pyridinyl)ethyl]thio]phenyl]- (CA INDEX NAME)



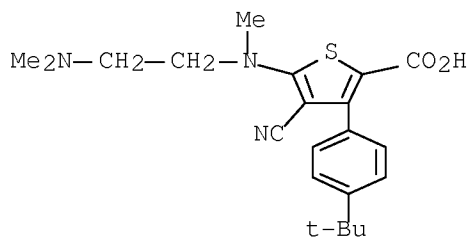
RN 861964-04-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4-pyridinylthio)phenyl]-
(CA INDEX NAME)



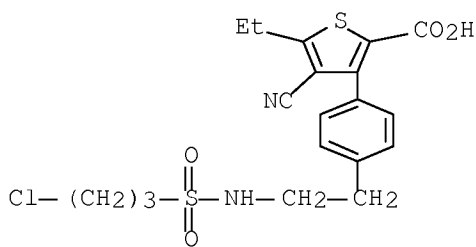
RN 861964-12-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-[[2-(dimethylamino)ethyl]methylamino]
]-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



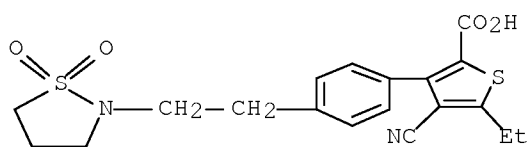
RN 861964-15-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[2-[[[(3-chloropropyl)sulfonyl]amino]ethyl]
]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



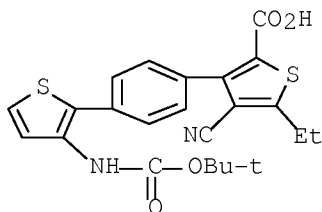
RN 861964-17-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-(1,1-dioxido-2-isothiazolidinyl)ethyl]phenyl]-5-ethyl- (CA INDEX NAME)



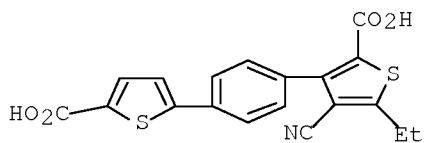
RN 861964-19-4 CAPLUS

| | | |
|----|---|-----------------|
| CN | 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[3-[(1,1-dimethylethoxy)carbonyl]amino]-2-thienyl]phenyl]-5-ethyl- | (CA INDEX NAME) |
|----|---|-----------------|



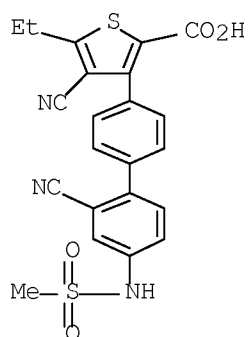
RN 861964-21-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(5-carboxy-2-thienyl)phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



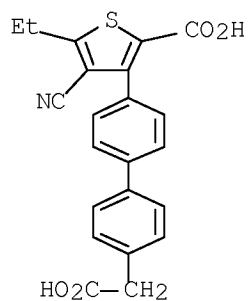
RN 861964-24-1 CAPLUS

| | | |
|----|---|-----------------|
| CN | 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-cyano-4'-([(methylsulfonyl)amino][1,1'-biphenyl]-4-yl]-5-ethyl- | (CA INDEX NAME) |
|----|---|-----------------|



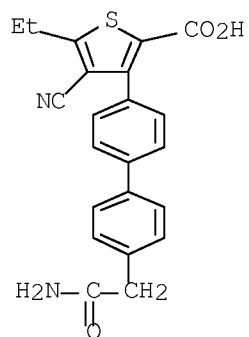
RN 861964-26-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4'-(carboxymethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



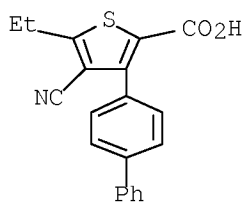
RN 861964-28-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4'-(2-amino-2-oxoethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



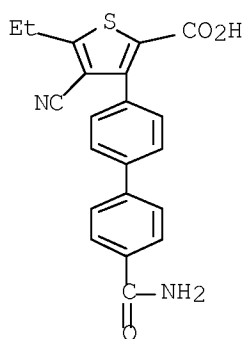
RN 861964-30-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[1,1'-biphenyl]-4-yl-4-cyano-5-ethyl- (CA INDEX NAME)



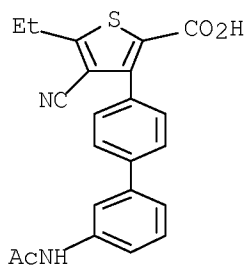
RN 861964-32-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4'-(aminocarbonyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



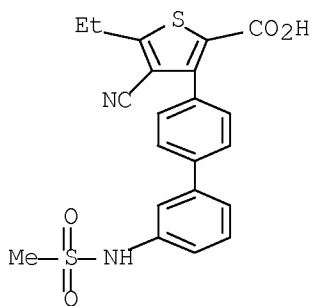
RN 861964-34-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[3'-(acetylamino)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl- (CA INDEX NAME)



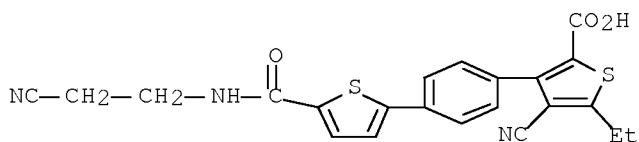
RN 861964-36-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-(methylsulfonyl)amino][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



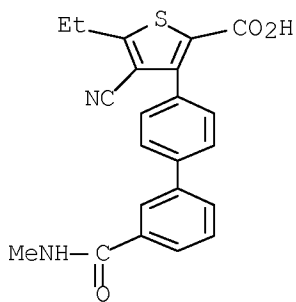
RN 861964-39-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[5-[[2-cyanoethyl]amino]carbonyl]-2-thienyl]phenyl]-5-ethyl- (CA INDEX NAME)



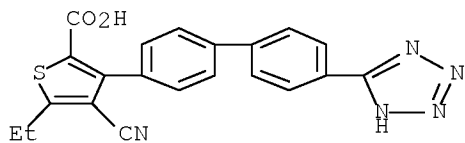
RN 861964-41-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[3'-[(methylamino)carbonyl][1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



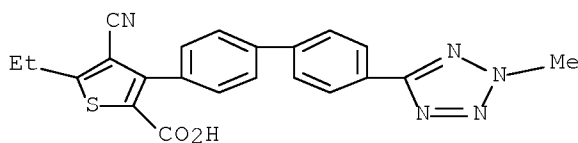
RN 861964-43-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



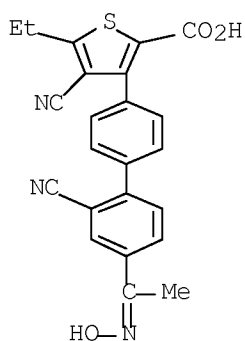
RN 861964-45-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-(2-methyl-2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



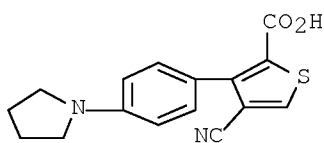
RN 861964-47-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-cyano-4'-[1-(hydroxyimino)ethyl][1,1'-biphenyl]-4-yl]-5-ethyl- (CA INDEX NAME)



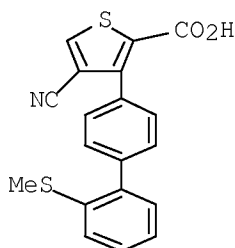
RN 861964-49-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)



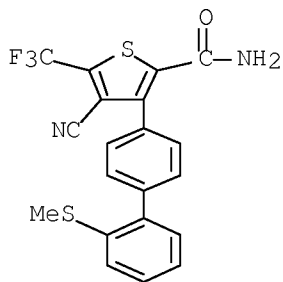
RN 861964-51-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



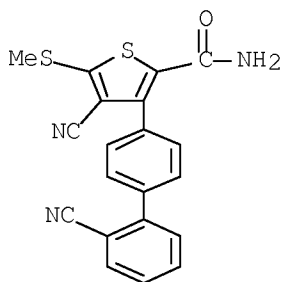
RN 861964-52-5 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]-5-(trifluoromethyl)- (CA INDEX NAME)



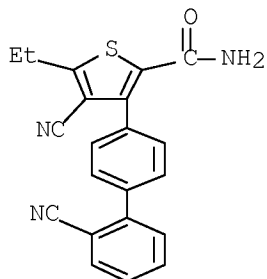
RN 861964-55-8 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-(methylthio)- (CA INDEX NAME)



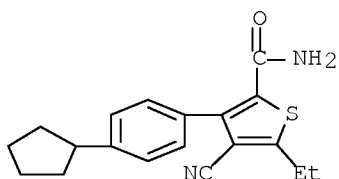
RN 861964-60-5 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-ethyl- (CA INDEX NAME)



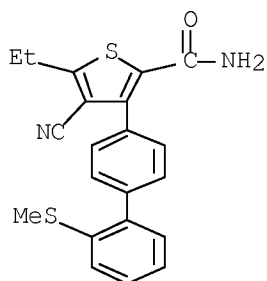
RN 861964-62-7 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-(4-cyclopentylphenyl)-5-ethyl- (CA INDEX NAME)



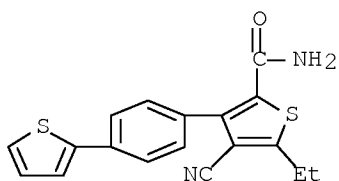
RN 861964-64-9 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



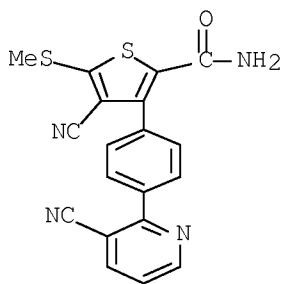
RN 861964-67-2 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-[4-(2-thienyl)phenyl]- (CA INDEX NAME)



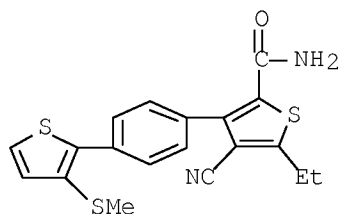
RN 861964-69-4 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(3-cyano-2-pyridinyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



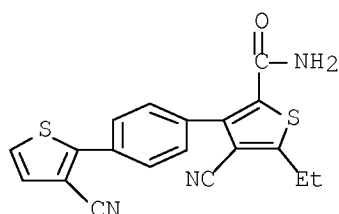
RN 861964-71-8 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-[4-[3-(methylthio)-2-thienyl]phenyl]- (CA INDEX NAME)



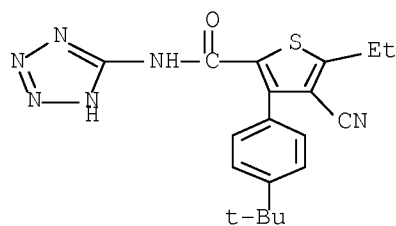
RN 861964-73-0 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(3-cyano-2-thienyl)phenyl]-5-ethyl- (CA INDEX NAME)



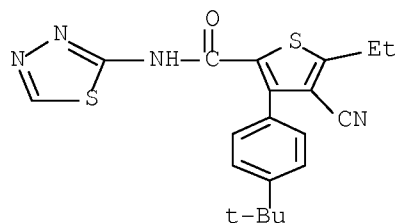
RN 861964-79-6 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

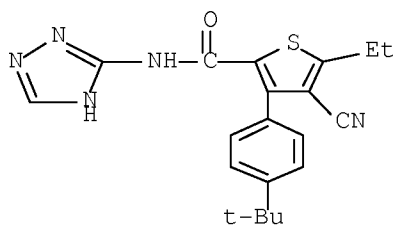


RN 861964-81-0 CAPLUS

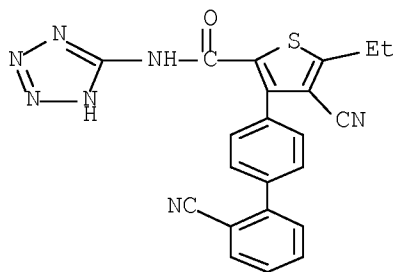
CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl-N-1,3,4-thiadiazol-2-yl- (CA INDEX NAME)



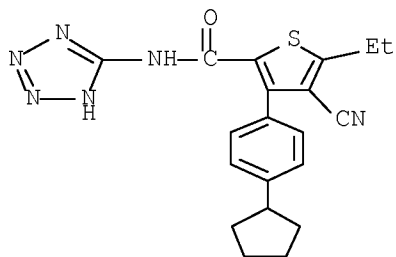
CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl-N-
1H-1,2,4-triazol-3-yl- (9CI) (CA INDEX NAME)



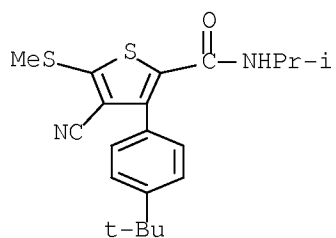
| | | |
|----|--|-----------------|
| CN | 2-Thiophenecarboxamide, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-ethyl-N-1H-tetrazol-5-yl- (9CI) | (CA INDEX NAME) |
|----|--|-----------------|



CN 2-Thiophenecarboxamide, 4-cyano-3-(4-cyclopentylphenyl)-5-ethyl-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

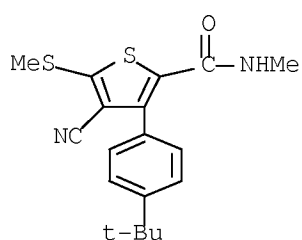


CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-(1-methylethyl)-5-(methylthio)- (CA INDEX NAME)



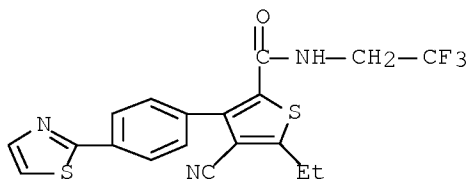
RN 861964-91-2 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-methyl-5-(methylthio)- (CA INDEX NAME)



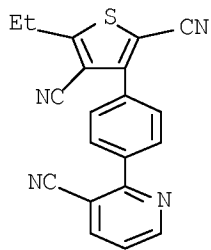
RN 861964-93-4 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-[4-(2-thiazolyl)phenyl]-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)



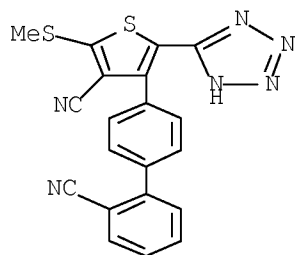
RN 861964-96-7 CAPLUS

CN 2,4-Thiophenedicarbonitrile, 3-[4-(3-cyano-2-pyridinyl)phenyl]-5-ethyl- (CA INDEX NAME)



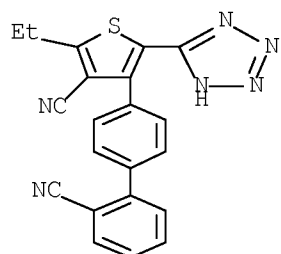
RN 861965-04-0 CAPLUS

CN 3-Thiophenecarbonitrile, 4-(2'-cyano[1,1'-biphenyl]-4-yl)-2-(methylthio)-5-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



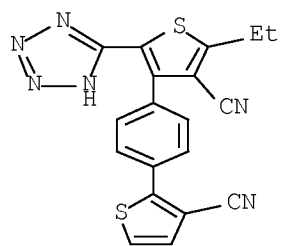
RN 861965-06-2 CAPLUS

CN 3-Thiophenecarbonitrile, 4-(2'-cyano[1,1'-biphenyl]-4-yl)-2-ethyl-5-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



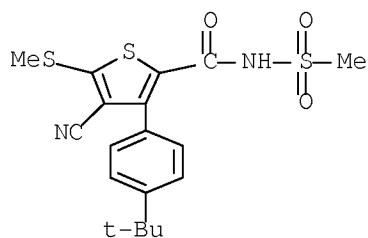
RN 861965-25-5 CAPLUS

CN 3-Thiophenecarbonitrile, 4-[4-(3-cyano-2-thienyl)phenyl]-2-ethyl-5-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



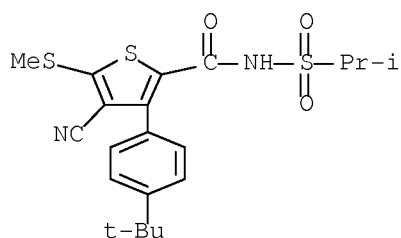
RN 861965-28-8 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-(methylsulfonyl)-5-(methylthio)- (CA INDEX NAME)



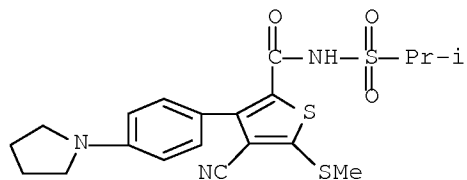
RN 861965-30-2 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-[(1-methylethyl)sulfonyl]-5-(methylthio)- (CA INDEX NAME)



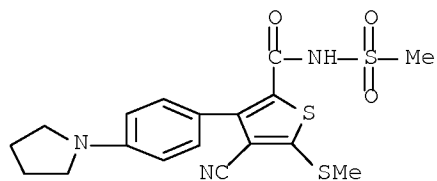
RN 861965-32-4 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-N-[(1-methylethyl)sulfonyl]-5-(methylthio)-3-[4-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)



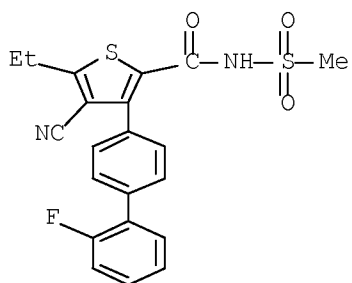
RN 861965-33-5 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-N-(methylsulfonyl)-5-(methylthio)-3-[4-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)



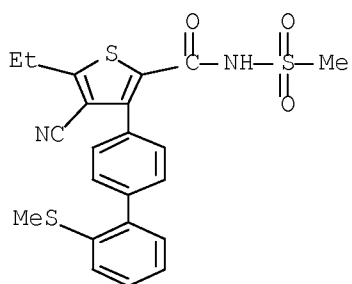
RN 861965-35-7 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-3-(2'-fluoro[1,1'-biphenyl]-4-yl)-N-(methylsulfonyl)- (CA INDEX NAME)



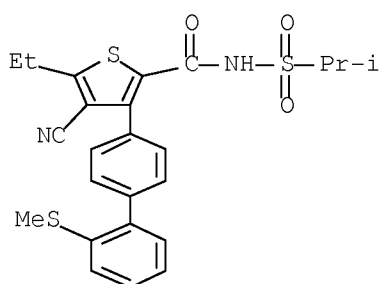
RN 861965-36-8 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-N-(methylsulfonyl)-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



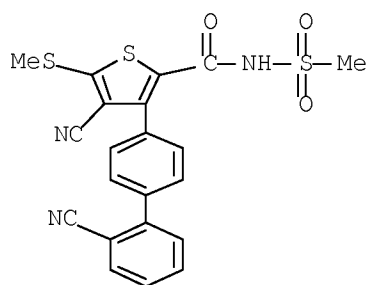
RN 861965-38-0 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-N-[(1-methylethyl)sulfonyl]-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)



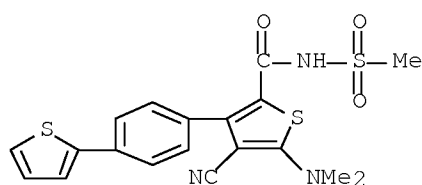
RN 861965-40-4 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-N-(methylsulfonyl)-5-(methylthio)- (CA INDEX NAME)



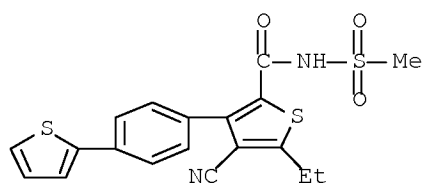
RN 861965-42-6 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-(dimethylamino)-N-(methylsulfonyl)-3-[4-(2-thienyl)phenyl]- (CA INDEX NAME)



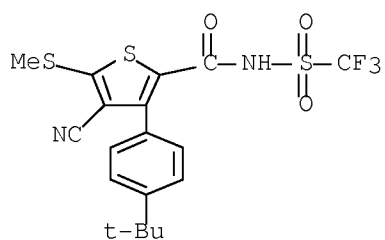
RN 861965-44-8 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-5-ethyl-N-(methylsulfonyl)-3-[4-(2-thienyl)phenyl]- (CA INDEX NAME)



RN 861965-46-0 CAPLUS

CN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)



IT 861967-87-5 861967-88-6 861967-89-7
861967-90-0 861967-91-1 861967-92-2

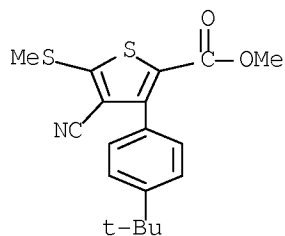
861967-93-3 861967-94-4 861967-95-5
861967-97-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of thiophene and furan compds. for potentiating glutamate receptor function)

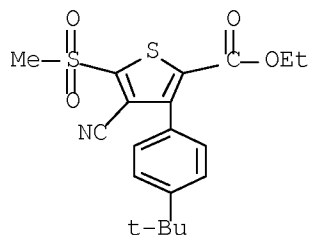
RN 861967-87-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-, methyl ester (CA INDEX NAME)



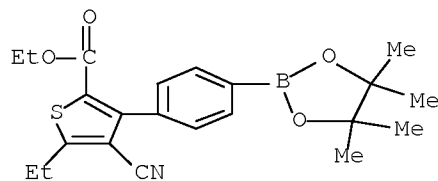
RN 861967-88-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylsulfonyl)-, ethyl ester (CA INDEX NAME)



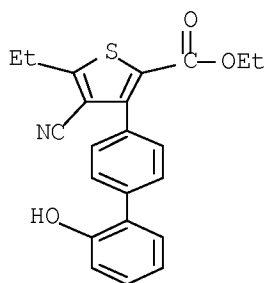
RN 861967-89-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]-, ethyl ester (CA INDEX NAME)



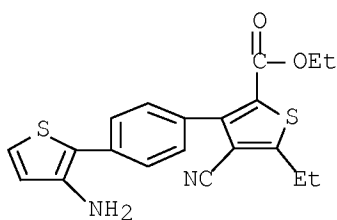
RN 861967-90-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(2'-hydroxy[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



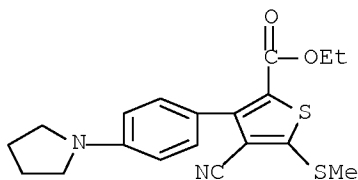
RN 861967-91-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(3-amino-2-thienyl)phenyl]-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



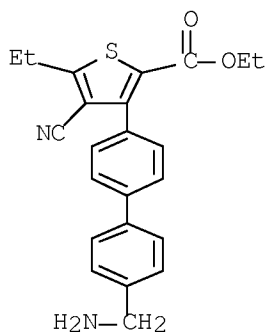
RN 861967-92-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-pyrrolidinyl)phenyl]-, ethyl ester (CA INDEX NAME)



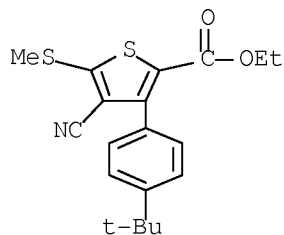
RN 861967-93-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4'-(aminomethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



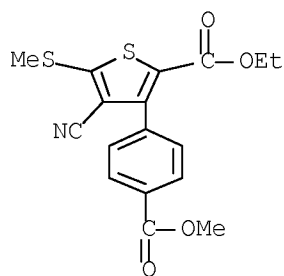
RN 861967-94-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



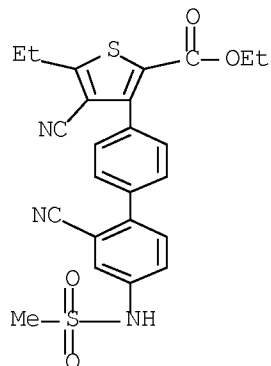
RN 861967-95-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(methoxycarbonyl)phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



RN 861967-97-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-cyano-4'-[(methylsulfonyl)amino][1,1'-biphenyl]-4-yl]-5-ethyl-, ethyl ester (CA INDEX NAME)



IT 861966-69-0P 861966-71-4P 861966-74-7P
861966-77-0P 861966-80-5P 861966-81-6P

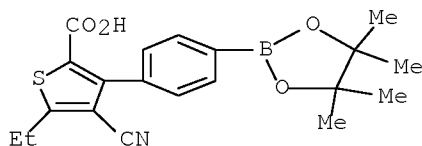
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 861967-79-5P 861967-80-8P 861967-81-9P
 861967-82-0P 861967-83-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiophene and furan compds. for potentiating glutamate receptor function)

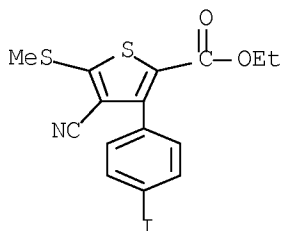
RN 861966-69-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]- (CA INDEX NAME)



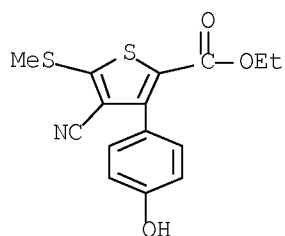
RN 861966-71-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(methylthio)-, ethyl ester (CA INDEX NAME)



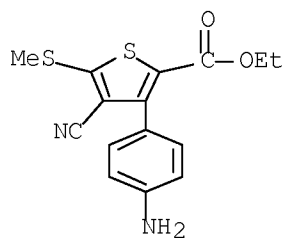
RN 861966-74-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-hydroxyphenyl)-5-(methylthio)-,
ethyl ester (CA INDEX NAME)



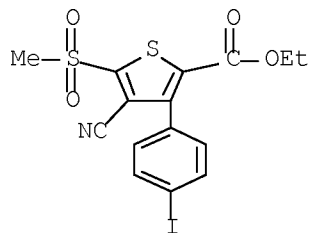
RN 861966-77-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-aminophenyl)-4-cyano-5-(methylthio)-,
ethyl ester (CA INDEX NAME)



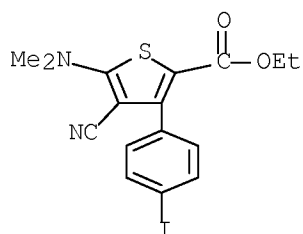
RN 861966-80-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(methylsulfonyl)-,
ethyl ester (CA INDEX NAME)



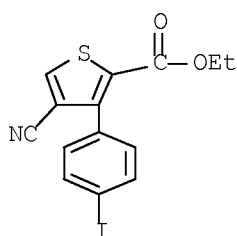
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-(4-iodophenyl)-,
ethyl ester (CA INDEX NAME)



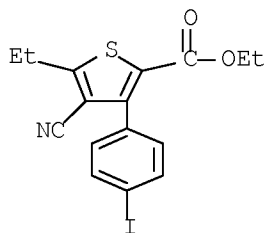
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



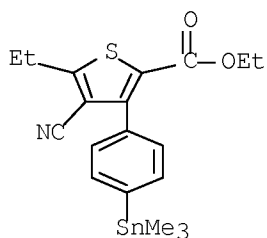
RN 861966-83-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



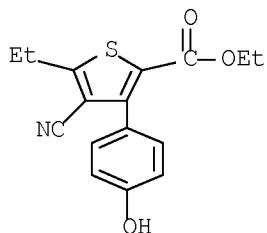
RN 861966-84-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(trimethylstannyl)phenyl]-, ethyl ester (CA INDEX NAME)



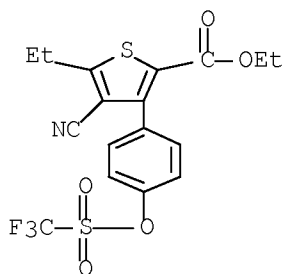
RN 861966-86-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-hydroxyphenyl)-, ethyl ester (CA INDEX NAME)



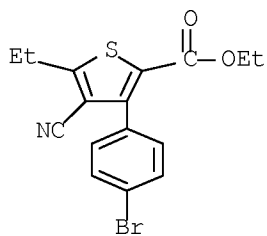
RN 861966-88-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[trifluoromethyl)sulfonyl]oxy]phenyl]-, ethyl ester (CA INDEX NAME)



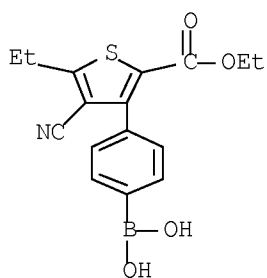
RN 861966-90-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



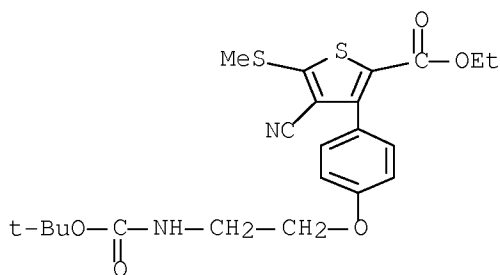
RN 861966-93-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-boronophenyl)-4-cyano-5-ethyl-, 2-ethyl ester (9CI) (CA INDEX NAME)



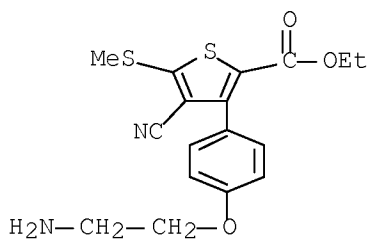
RN 861966-96-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



RN 861966-98-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(2-aminoethoxy)phenyl]-4-cyano-5-(methylthio)-, ethyl ester (CA INDEX NAME)



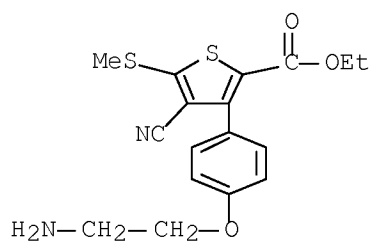
RN 861966-99-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(2-aminoethoxy)phenyl]-4-cyano-5-(methylthio)-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 861966-98-5

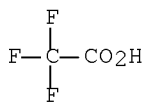
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CM 2

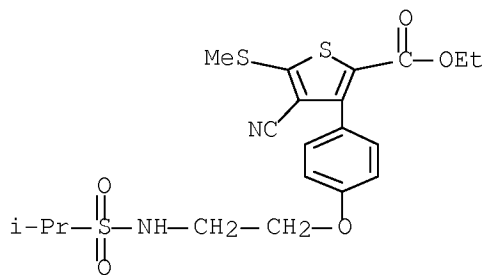
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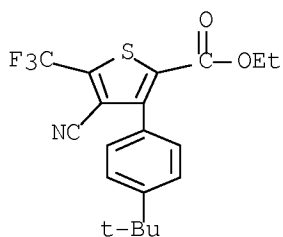
RN 861967-01-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-[[1-(methylethyl)sulfonyl]amino]ethoxy]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



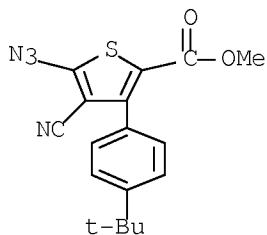
RN 861967-03-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



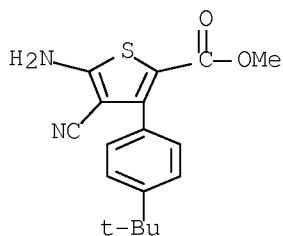
RN 861967-05-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-azido-4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-, methyl ester (CA INDEX NAME)



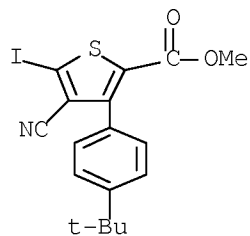
RN 861967-06-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-amino-4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-, methyl ester (CA INDEX NAME)



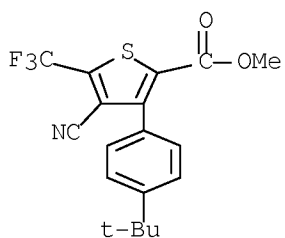
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-iodo-, methyl ester (CA INDEX NAME)



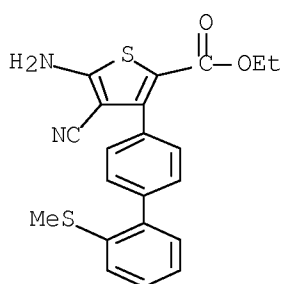
RN 861967-10-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)-, methyl ester (CA INDEX NAME)



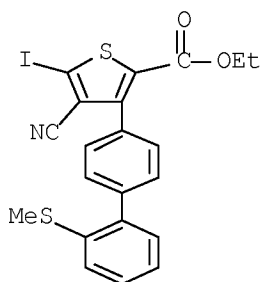
RN 861967-11-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-amino-4-cyano-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]-, ethyl ester (CA INDEX NAME)



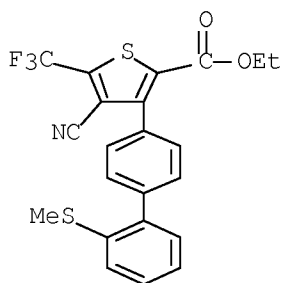
RN 861967-13-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-iodo-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]-, ethyl ester (CA INDEX NAME)



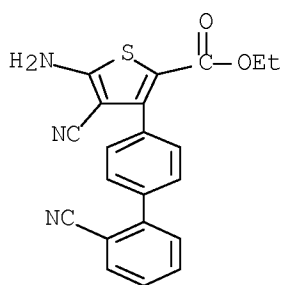
RN 861967-14-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[2'-(methylthio)[1,1'-biphenyl]-4-yl]-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



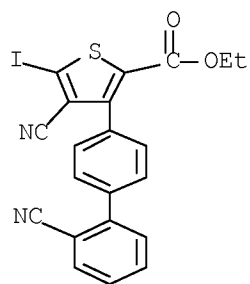
RN 861967-15-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-amino-4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



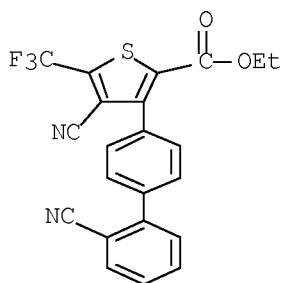
RN 861967-16-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-iodo-, ethyl ester (CA INDEX NAME)



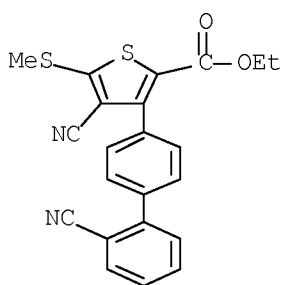
RN 861967-17-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



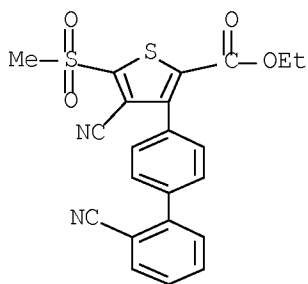
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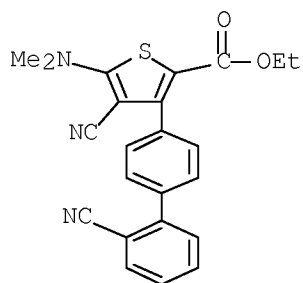
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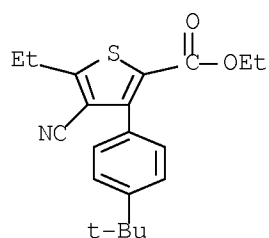
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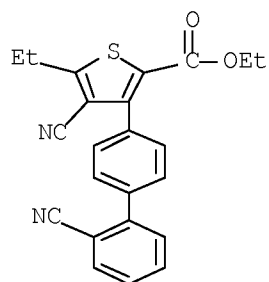
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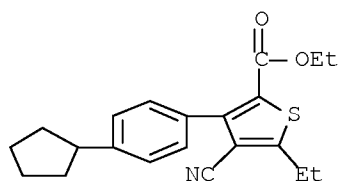
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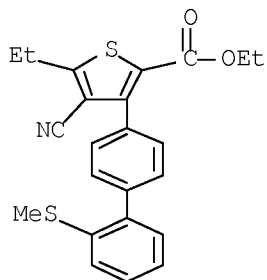
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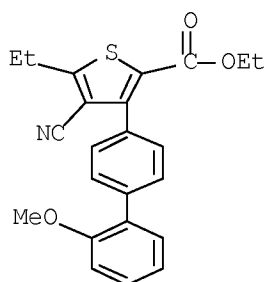
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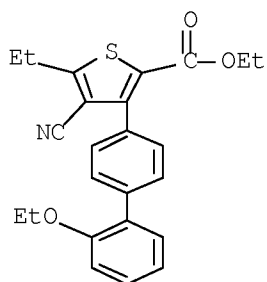
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(2'-methoxy[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



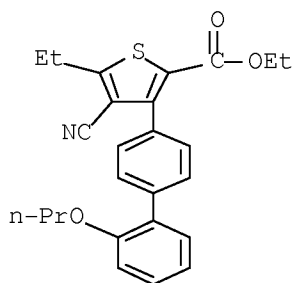
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-ethoxy[1,1'-biphenyl]-4-yl)-5-ethyl-, ethyl ester (CA INDEX NAME)



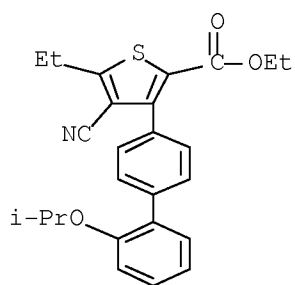
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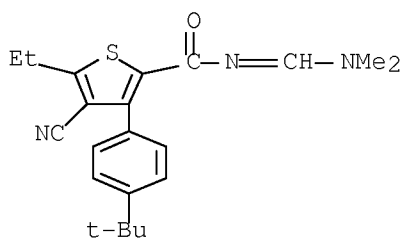
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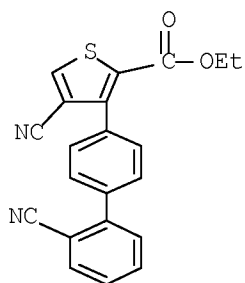
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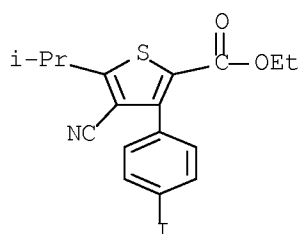
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(2'-cyano[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



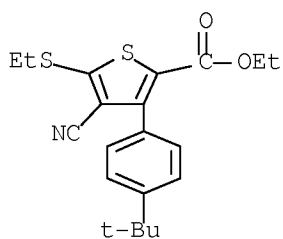
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



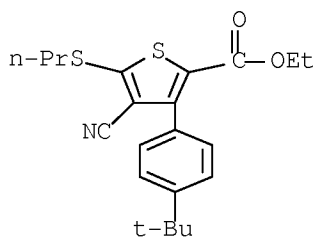
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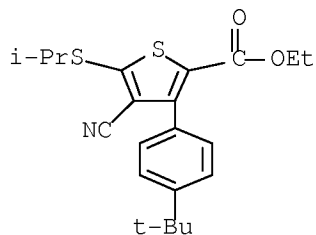
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(propylthio)-, ethyl ester (CA INDEX NAME)



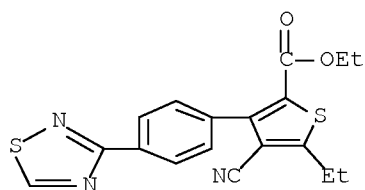
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]-, ethyl ester (CA INDEX NAME)



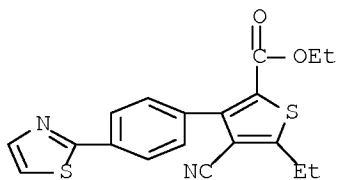
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(1,2,4-thiadiazol-3-yl)phenyl]-, ethyl ester (CA INDEX NAME)



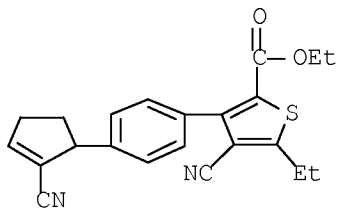
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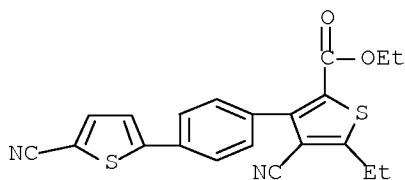
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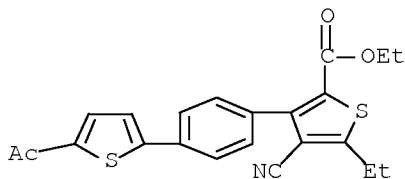
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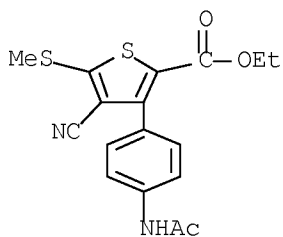
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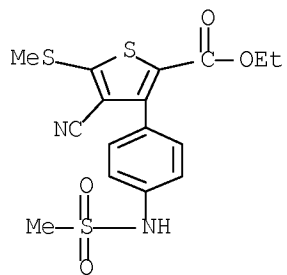
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CN 2-Thiophenecarboxylic acid, 3-[4-(acetylamino)phenyl]-4-cyano-5-(methylthio)-, ethyl ester (CA INDEX NAME)



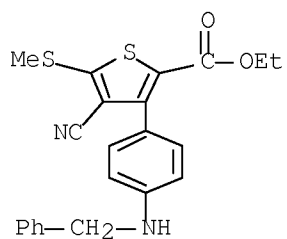
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(methylsulfonyl)amino]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



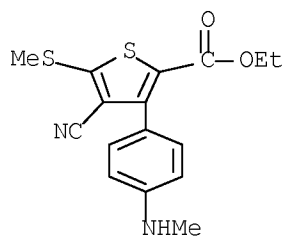
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-[(phenylmethyl)amino]phenyl]-, ethyl ester (CA INDEX NAME)



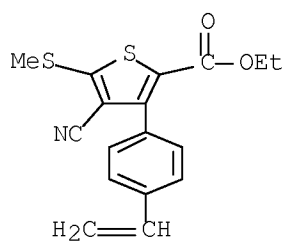
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(methylanino)phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



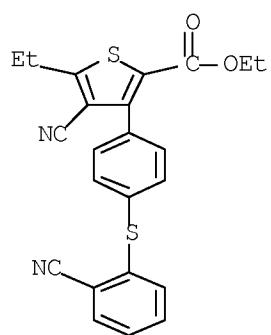
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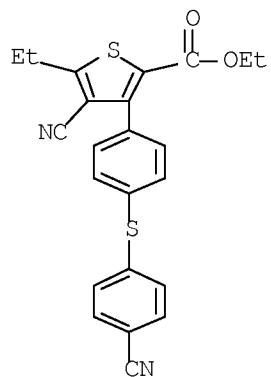
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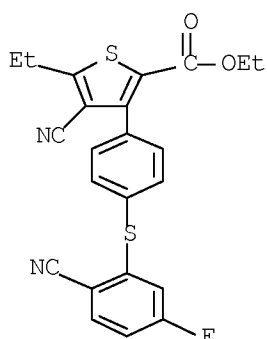
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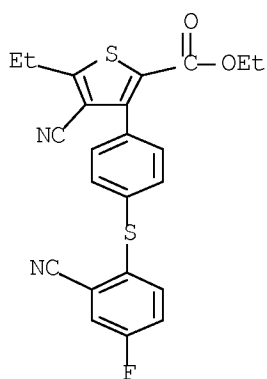
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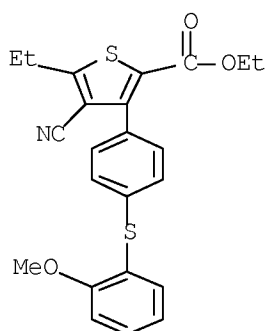
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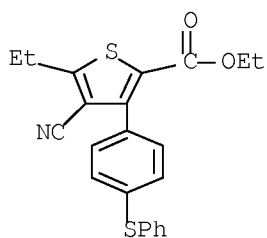
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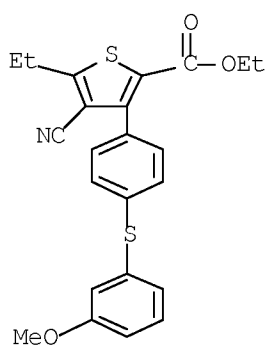
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(phenylthio)phenyl]-, ethyl ester (CA INDEX NAME)



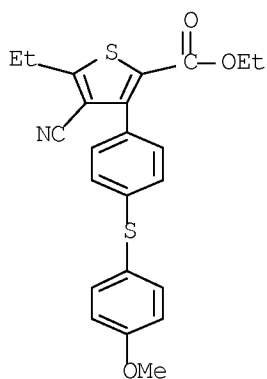
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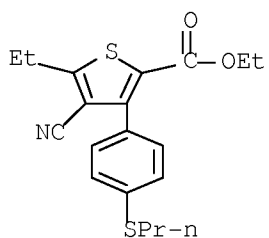
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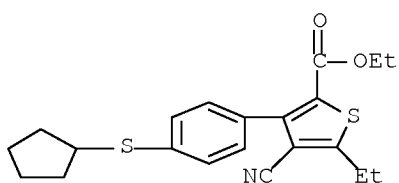
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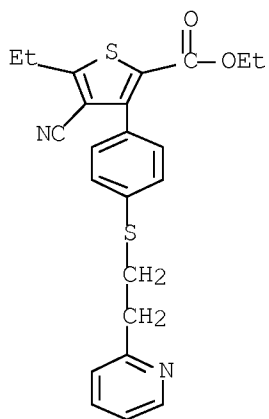
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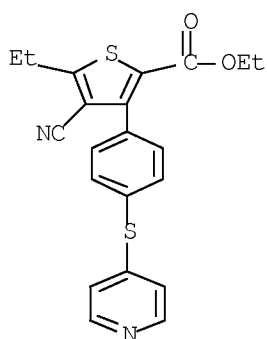
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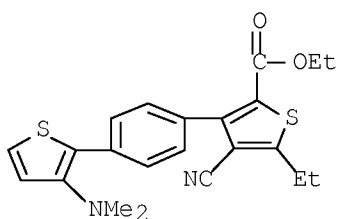
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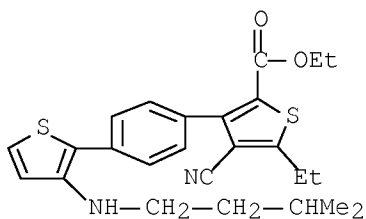
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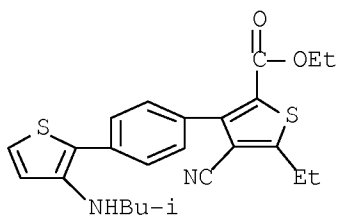
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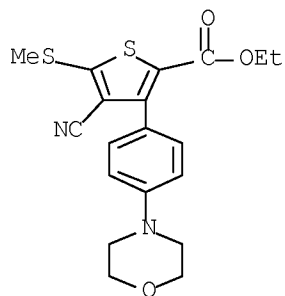
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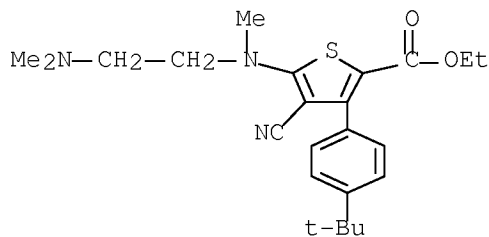
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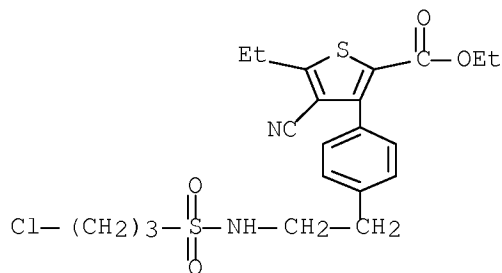
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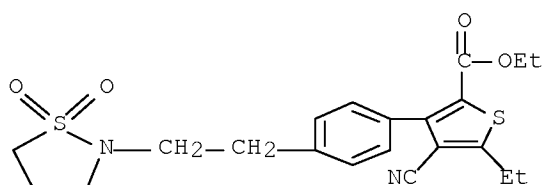
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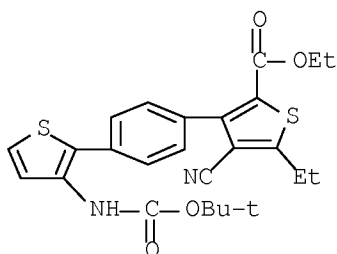
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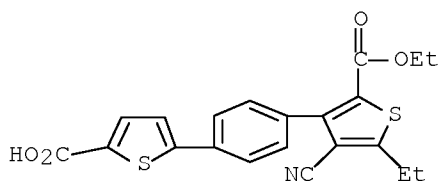
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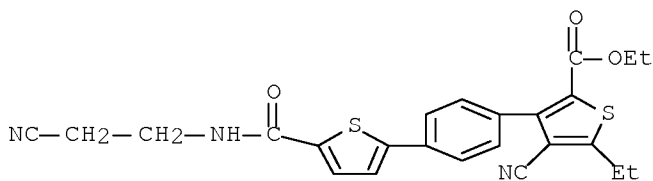
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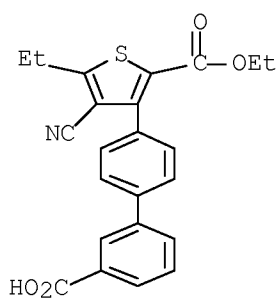
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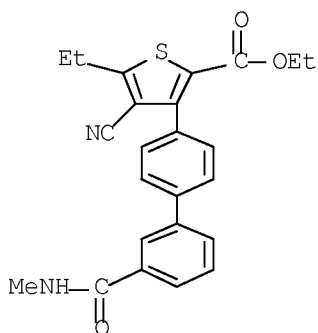


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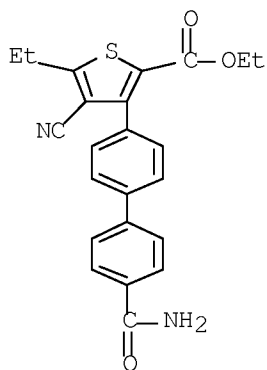
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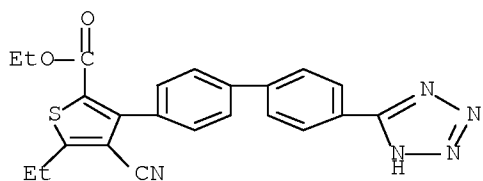
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RN 861967-77-3 CAPLUS
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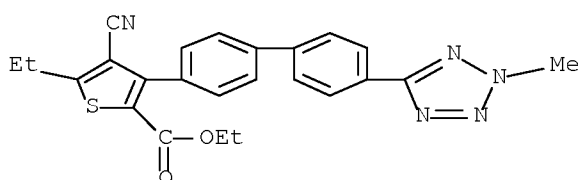


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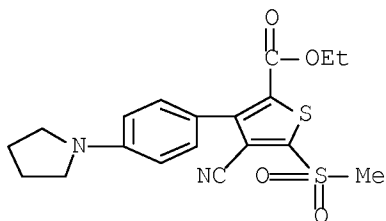
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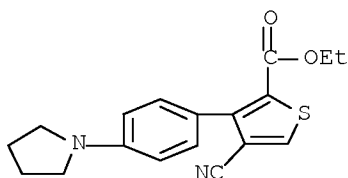
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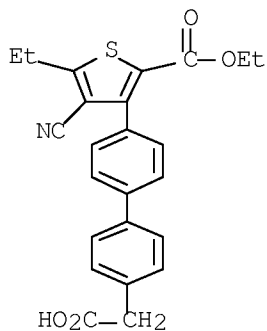
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-pyrrolidinyl)phenyl]-, ethyl ester (CA INDEX NAME)

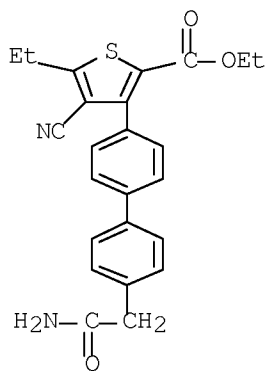


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CN 2-Thiophenecarboxylic acid, 3-[4'-(carboxymethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl-, 2-ethyl ester (CA INDEX NAME)



RN 861967-83-1 CAPLUS
 CN 2-Thiophenecarboxylic acid, 3-[4'-(2-amino-2-oxoethyl)[1,1'-biphenyl]-4-yl]-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 19:43:08 ON 12 NOV 2007)

FILE 'CAPLUS' ENTERED AT 19:43:23 ON 12 NOV 2007

E US 2006-596419/APPS

L1 1 S E3
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 19:44:55 ON 12 NOV 2007

L2 472 S E1-E472
 L3 387 S L2 AND ?THIOPHENE?
 L4 354 S L3 AND ?CYANO?

FILE 'CAPLUS' ENTERED AT 19:49:19 ON 12 NOV 2007

L5 190 S L4

FILE 'REGISTRY' ENTERED AT 19:50:43 ON 12 NOV 2007

L6 334 S L4 AND ?PHENYL?

FILE 'CAPLUS' ENTERED AT 19:53:10 ON 12 NOV 2007

L7 3 S L6
L8 0 S L7 AND (AY<2004 OR PY<2004 OR PRY<2004)
L9 1 S L7 AND (AY<2005 OR PY<2005 OR PRY<2005)

=> s l2 and furan?

141208 L2
83078 FURAN?

L10 8471 L2 AND FURAN?

=> s l2 and ?furan?

141208 L2
214956 ?FURAN?

L11 14279 L2 AND ?FURAN?

=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 41.76 | 66.21 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -2.34 | -2.34 |

FILE 'REGISTRY' ENTERED AT 20:05:42 ON 12 NOV 2007

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4

DICTIONARY FILE UPDATES: 11 NOV 2007 HIGHEST RN 953024-83-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d his

(FILE 'HOME' ENTERED AT 19:43:08 ON 12 NOV 2007)

FILE 'CAPLUS' ENTERED AT 19:43:23 ON 12 NOV 2007

E US 2006-596419/APPS

L1 1 S E3
SEL RN L1

FILE 'REGISTRY' ENTERED AT 19:44:55 ON 12 NOV 2007

L2 472 S E1-E472
L3 387 S L2 AND ?THIOPHENE?
L4 354 S L3 AND ?CYANO?

FILE 'CAPLUS' ENTERED AT 19:49:19 ON 12 NOV 2007
L5 190 S L4

FILE 'REGISTRY' ENTERED AT 19:50:43 ON 12 NOV 2007
L6 334 S L4 AND ?PHENYL?

FILE 'CAPLUS' ENTERED AT 19:53:10 ON 12 NOV 2007
L7 3 S L6
L8 0 S L7 AND (AY<2004 OR PY<2004 OR PRY<2004)
L9 1 S L7 AND (AY<2005 OR PY<2005 OR PRY<2005)
L10 8471 S L2 AND FURAN?
L11 14279 S L2 AND ?FURAN?

FILE 'REGISTRY' ENTERED AT 20:05:42 ON 12 NOV 2007

=> s l2 and ?furan?
LEFT TRUNCATION IGNORED FOR FILE 'REGISTRY'
1379941 FURAN?

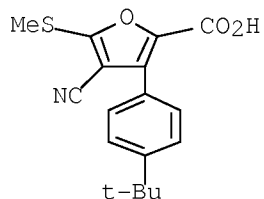
L12 4 L2 AND ?FURAN?
Left truncation is not valid in the specified search field in the specified file. The term has been searched without left truncation. Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID' would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you used a truncation symbol after a punctuation mark, the system may interpret the truncation symbol as being at the beginning of a term. Implied proximity is used in search fields indexed as single words, for example, the Basic Index.

=> s l2 and furan?
1379941 FURAN?
L13 4 L2 AND FURAN?

=> d scan l13 4
'4' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

L13 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Furancarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-
MF C17 H17 N O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

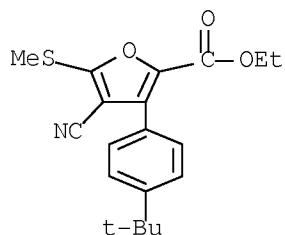
The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

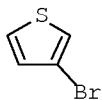
HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L13 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Furancarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-, ethyl ester
 MF C19 H21 N O3 S



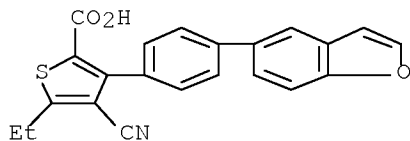
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Thiophene, 3-bromo-
 MF C4 H3 Br S
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2-Thiophenecarboxylic acid, 3-[4-(5-benzofuranyl)phenyl]-4-cyano-5-ethyl-
 MF C22 H15 N O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 19:43:08 ON 12 NOV 2007)

FILE 'CAPLUS' ENTERED AT 19:43:23 ON 12 NOV 2007

E US 2006-596419/APPS

L1 1 S E3
SEL RN L1

FILE 'REGISTRY' ENTERED AT 19:44:55 ON 12 NOV 2007

L2 472 S E1-E472
L3 387 S L2 AND ?THIOPHENE?
L4 354 S L3 AND ?CYANO?

FILE 'CAPLUS' ENTERED AT 19:49:19 ON 12 NOV 2007

L5 190 S L4

FILE 'REGISTRY' ENTERED AT 19:50:43 ON 12 NOV 2007

L6 334 S L4 AND ?PHENYL?

FILE 'CAPLUS' ENTERED AT 19:53:10 ON 12 NOV 2007

L7 3 S L6
L8 0 S L7 AND (AY<2004 OR PY<2004 OR PRY<2004)
L9 1 S L7 AND (AY<2005 OR PY<2005 OR PRY<2005)
L10 8471 S L2 AND FURAN?
L11 14279 S L2 AND ?FURAN?

FILE 'REGISTRY' ENTERED AT 20:05:42 ON 12 NOV 2007

L12 4 S L2 AND ?FURAN?
L13 4 S L2 AND FURAN?

=> save l2 temp mans10596419/a

ANSWER SET L2 HAS BEEN SAVED AS 'MANS10596419/A'

=> fil caplus

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 11.70 | 77.91 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.34 |

FILE 'CAPLUS' ENTERED AT 20:08:23 ON 12 NOV 2007

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FILE COVERS 1907 - 12 Nov 2007 VOL 147 ISS 21
FILE LAST UPDATED: 11 Nov 2007 (20071111/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> save temp 17 man10596419/a
ANSWER SET L7 HAS BEEN SAVED AS 'MAN10596419/A'

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 0.47 | 78.38 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.34 |

STN INTERNATIONAL LOGOFF AT 20:09:09 ON 12 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptanscl625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | |
|---------|--------|---|
| NEWS 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS 2 | OCT 02 | CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt |
| NEWS 3 | OCT 19 | BEILSTEIN updated with new compounds |
| NEWS 4 | NOV 15 | Derwent Indian patent publication number format enhanced |
| NEWS 5 | NOV 19 | WPIX enhanced with XML display format |
| NEWS 6 | NOV 30 | ICSD reloaded with enhancements |
| NEWS 7 | DEC 04 | LINPADOCDB now available on STN |
| NEWS 8 | DEC 14 | BEILSTEIN pricing structure to change |
| NEWS 9 | DEC 17 | USPATOLD added to additional database clusters |
| NEWS 10 | DEC 17 | IMSDRUGCONF removed from database clusters and STN |
| NEWS 11 | DEC 17 | DGENE now includes more than 10 million sequences |
| NEWS 12 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment |
| NEWS 13 | DEC 17 | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary |
| NEWS 14 | DEC 17 | CA/CAPLUS enhanced with new custom IPC display formats |
| NEWS 15 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD |
| NEWS 16 | JAN 02 | STN pricing information for 2008 now available |
| NEWS 17 | JAN 16 | CAS patent coverage enhanced to include exemplified |

prophetic substances
 NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new
 custom IPC display formats
 NEWS 19 JAN 28 MARPAT searching enhanced
 NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days
 of publication
 NEWS 21 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS 22 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
 NEWS 23 FEB 08 STN Express, Version 8.3, now available
 NEWS 24 FEB 20 PCI now available as a replacement to DPCI
 NEWS 25 FEB 25 IFIREF reloaded with enhancements
 NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
 NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
 U.S. National Patent Classification
 NEWS 28 MAR 31 IFICDB, IFIPAT, and IFIUDB enhanced with new custom
 IPC display formats
 NEWS 29 MAR 31 CAS REGISTRY enhanced with additional experimental
 spectra
 NEWS 30 MAR 31 CA/CAPplus and CASREACT patent number format for U.S.
 applications updated
 NEWS 31 MAR 31 LPCI now available as a replacement to LDPCI
 NEWS 32 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
 AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN Welcome Banner and News Items
 NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:17:11 ON 02 APR 2008

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND
 command can only be used to look at the index in a file which has an
 index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
 commands which can be used in this file.

=> FILE REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 16:17:39 ON 02 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 1 APR 2008 HIGHEST RN 1011527-65-3
DICTIONARY FILE UPDATES: 1 APR 2008 HIGHEST RN 1011527-65-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

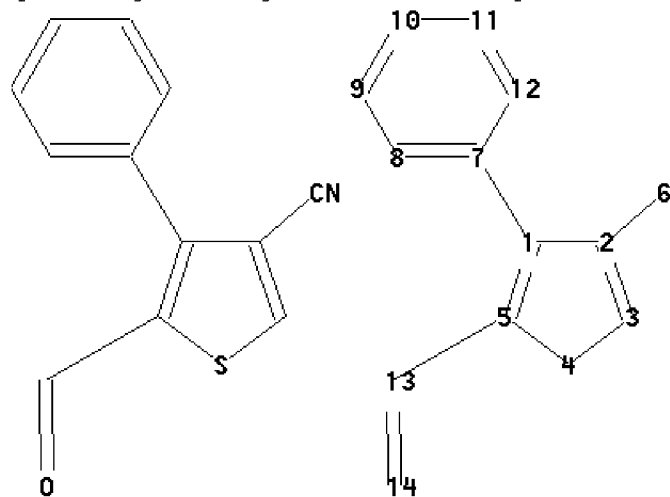
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10596419A.str



chain nodes :

6 13 14

ring nodes :

1 2 3 4 5 7 8 9 10 11 12

chain bonds :

1-7 2-6 5-13 13-14

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 13-14

exact bonds :

1-7 2-6 5-13

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12

Match level :

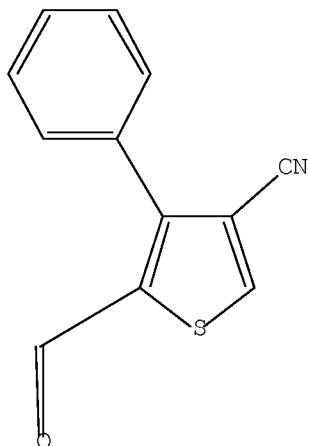
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam l1

SAMPLE SEARCH INITIATED 16:17:55 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 56 TO ITERATE

100.0% PROCESSED 56 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 672 TO 1568

PROJECTED ANSWERS: 119 TO 641

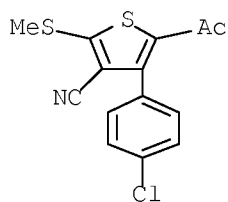
L2 19 SEA SSS SAM L1

=> d scan

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 3-Thiophenecarbonitrile, 5-acetyl-4-(4-chlorophenyl)-2-(methylthio)-

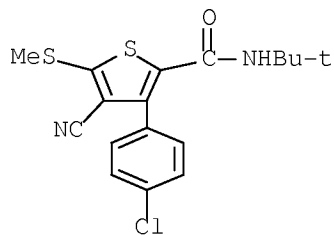
MF C14 H10 Cl N O S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

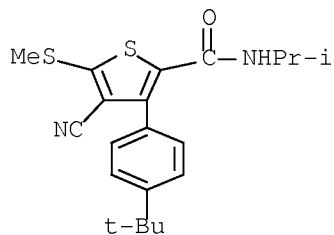
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxamide, 3-(4-chlorophenyl)-4-cyano-N-(1,1-dimethylethyl)-5-(methylthio)-
 MF C17 H17 Cl N2 O S2



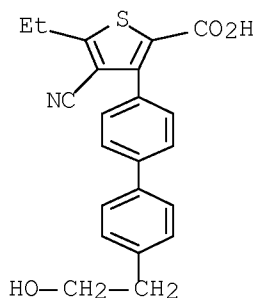
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxamide, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-N-(1-methylethyl)-5-(methylthio)-
 MF C20 H24 N2 O S2



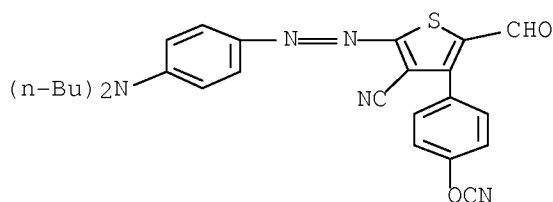
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4'-(2-hydroxyethyl)[1,1'-
 biphenyl]-4-yl]-
 MF C22 H19 N O3 S



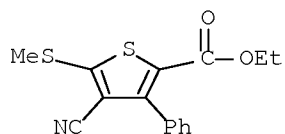
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Cyanic acid, 4-[4-cyano-5-[[4-(dibutylamino)phenyl]azo]-2-formyl-3-
 thienyl]phenyl ester (9CI)
 MF C27 H27 N5 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-phenyl-, ethyl ester
 MF C15 H13 N O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s sss full l1

FULL SEARCH INITIATED 16:18:57 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1182 TO ITERATE

100.0% PROCESSED 1182 ITERATIONS

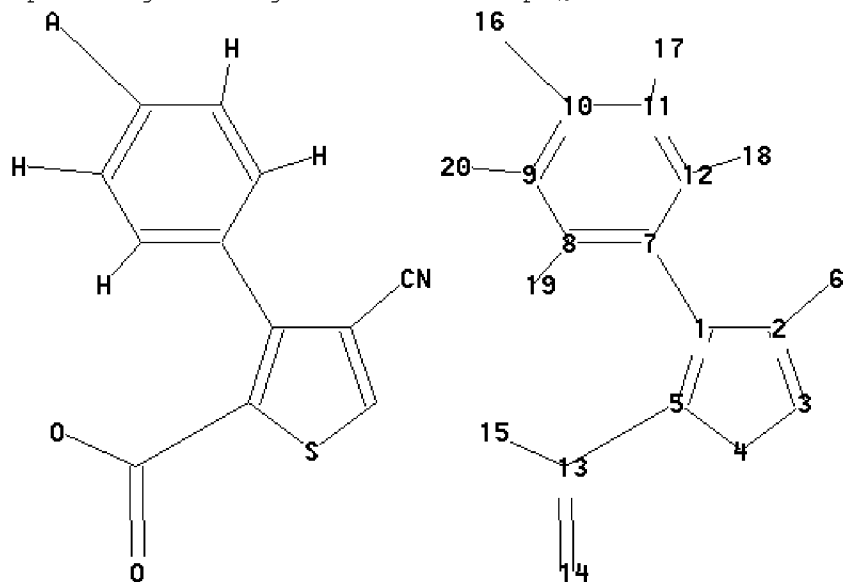
506 ANSWERS

SEARCH TIME: 00.00.01

L3 506 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10596419B.str



chain nodes :

6 13 14 15 16 17 18 19 20

ring nodes :

1 2 3 4 5 7 8 9 10 11 12

chain bonds :

1-7 2-6 5-13 8-19 9-20 10-16 11-17 12-18 13-14 13-15

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 10-16 13-14 13-15

exact bonds :

1-7 2-6 5-13 8-19 9-20 11-17 12-18

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12

Match level :

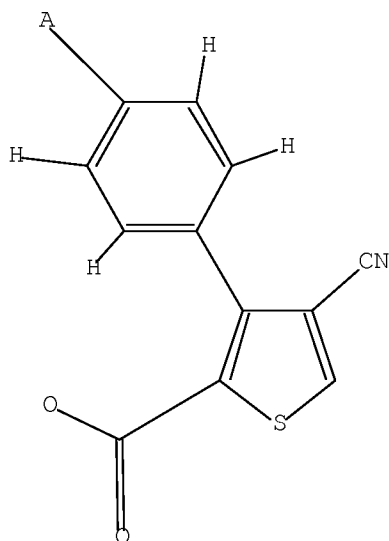
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS

L4 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam 14 subset=L3

SAMPLE SUBSET SEARCH INITIATED 16:21:14 FILE 'REGISTRY'

SAMPLE SUBSET SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):

ONLINE **COMPLETE**

PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):

119 TO 641

PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):

3 TO 162

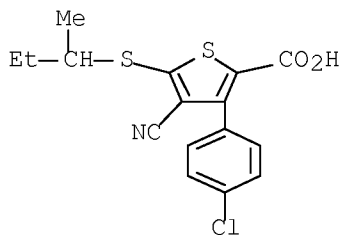
L5 3 SEA SUB=L3 SSS SAM L4

=> d scan

L5 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-[(1-methylpropyl)thio]-

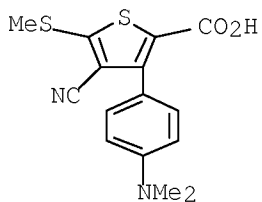
MF C16 H14 Cl N O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

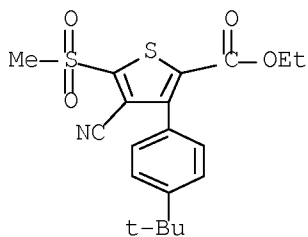
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L5 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(dimethylamino)phenyl]-5-(methylthio)-
 MF C15 H14 N2 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylsulfonyl)-, ethyl ester
 MF C19 H21 N O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s sss full l4 subset=L3

FULL SUBSET SEARCH INITIATED 16:21:58 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 506 TO ITERATE

100.0% PROCESSED 506 ITERATIONS

154 ANSWERS

SEARCH TIME: 00.00.01

L6 154 SEA SUB=L3 SSS FUL L4

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

223.68

223.89

FILE 'CAPLUS' ENTERED AT 16:22:36 ON 02 APR 2008

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FILE COVERS 1907 - 2 Apr 2008 VOL 148 ISS 14

FILE LAST UPDATED: 1 Apr 2008 (20080401/ED)

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<http://www.cas.org/infopolicy.html>

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L7 10 L6

=> s l7 and (ay<2004 or py<2004 or pry<2004)

4766300 AY<2004

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4244991 PRY<2004

L8 5 L7 AND (AY<2004 OR PY<2004 OR PRY<2004)

=> d ibib abs hitstr 1-5

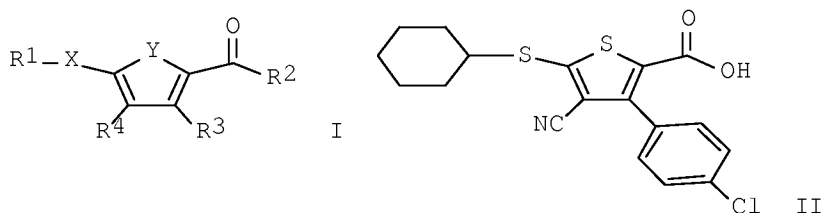
L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:638862 CAPLUS Full-text

DOCUMENT NUMBER: 143:126778
 TITLE: Thiophene derivatives for up-regulating HLA-DM activity
 INVENTOR(S): Nicholson, Melissa; Wucherpfennig, Kai; Stein, Ross L.; Yeh, Li-An; Cuny, Gregory D.
 PATENT ASSIGNEE(S): The Brigham and Women's Hospital, Inc., USA; Dana-Farber Cancer Institute, Inc.
 SOURCE: PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|--------------|
| WO 2005066152 | A1 | 20050721 | WO 2004-US43950 | 20041229 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

PRIORITY APPLN. INFO.: US 2003-533720P P 20031230 <--
 OTHER SOURCE(S): MARPAT 143:126778
 GI



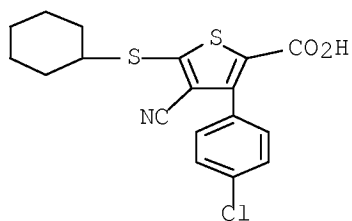
AB Compds. I [R1 = alkyl, aryl, heterocyclyl; R2 = H, alkyl, aryl, heterocyclyl, OR3, N(R3)2; R3 = H, alkyl, aryl, heterocyclyl; R4 = H, CN, halo, CF3, CO2R3, CON(R3)2; X = S, SO2, O, NR3; Y = S, O, NR3], compns., methods and kits are provided. The compds. and compns. may be particularly useful for modulating immunol. responses. Preparation of II is included.

IT 858280-91-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(thiophene derivs. for up-regulating HLA-DM activity)

RN 858280-91-8 CAPLUS

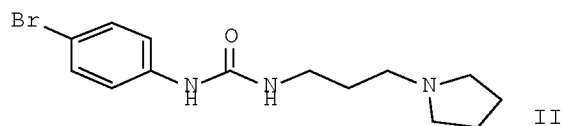
CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(cyclohexylthio)-
 (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:338479 CAPLUS Full-text
 DOCUMENT NUMBER: 134:353175
 TITLE: Preparation of amides and ureas as activators of soluble guanylate cyclase
 INVENTOR(S): Selwood, David; Glen, Robert; Reynolds, Karen; Wishart, Grant
 PATENT ASSIGNEE(S): University College London, UK
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-------------------|----------------|
| WO 2001032604 | A1 | 20010510 | WO 2000-GB4249 | 20001106 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2389773 | A1 | 20010510 | CA 2000-2389773 | 20001106 <-- |
| EP 1237849 | A1 | 20020911 | EP 2000-973061 | 20001106 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| JP 2003513064 | T | 20030408 | JP 2001-534758 | 20001106 <-- |
| PRIORITY APPLN. INFO.: | | | GB 1999-26286 | A 19991105 <-- |
| | | | US 2000-201382P | P 20000502 <-- |
| | | | WO 2000-GB4249 | W 20001106 <-- |
| OTHER SOURCE(S): | | | MARPAT 134:353175 | |
| GI | | | | |



AB The title compds. R₄PZNR₁R₂ [I; R₁, R₂ = alkyl; R₁R₂ together form alkylene; Z = alkylene; P = a direct bond, X, Y, W, XY, YW, XYW (wherein W = O, S, NR₃; R₃ = H, alkyl; Y = UV; V = a direct bond, alkylene; U = CS, CO, SO₂, C(:NR); R = H, OH, alkyl; X = O, NR₆; R₆ = H, alkyl, alkenyl, etc.); R₄ = alkyl, alkenyl, alkynyl, etc.], useful in the activation of soluble guanylate cyclase, were prepared E.g., synthesis of the urea II, starting with 4-bromoaniline and 1-(3-aminopropyl)pyrrolidine, was given. Biol. data for compds. I (e.g., IC₅₀ for inhibition of platelet aggregation) were presented.

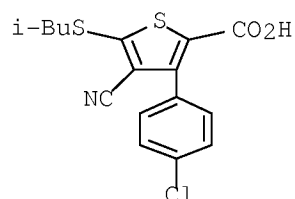
IT 338981-31-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of amides and ureas as activators of soluble guanylate cyclase)

RN 338981-31-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-[(2-methylpropyl)thio]- (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:528820 CAPLUS Full-text

DOCUMENT NUMBER: 109:128820

TITLE: Preparation of 3-cyano-4-arylthiophenes as herbicides

INVENTOR(S): Abdulla, Riaz Fazal; Morris, Kenneth William; Williams, James Curtis, Jr.

PATENT ASSIGNEE(S): Eli Lilly and Co., USA

SOURCE: Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

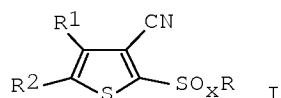
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|----------------|
| EP 273602 | A1 | 19880706 | EP 1987-310603 | 19871202 <-- |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 63159380 | A | 19880702 | JP 1987-310798 | 19871205 <-- |
| PRIORITY APPLN. INFO.: | | | US 1986-938220 | A 19861205 <-- |
| OTHER SOURCE(S): | | MARPAT 109:128820 | | |

GI



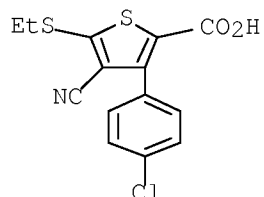
AB The title compds. [I; R = Cl-3 alkyl; R1 = (un)substituted Ph; R2 = H, Cl; x = 0-2] were prepared HSCH2CO2Me and 4-ClC6H4COC(CN):C(MeS)2 were heated in EtOH in the presence of Et3N to give Me 4-(4-chlorophenyl)-3-cyano-2- (methylthio)-5-thiophencarboxylate. The latter was saponified to give the carboxylic acid which was treated with quinoline and Cu bronze to give I (R = Me, R1 = 4-ClC6H4, R2 = H, x = 0) (II). In tomatoes, 15 lb II/acre gave 100% preemergence control of crabgrass and redroot pigweed.

IT 116492-91-2P 116492-95-6P 116493-03-9P
116493-07-3P 116525-65-6P 116525-66-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)

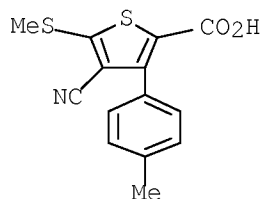
RN 116492-91-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(ethylthio)- (CA INDEX NAME)



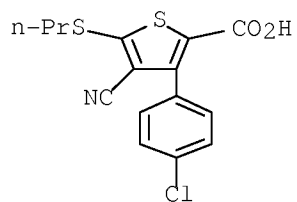
RN 116492-95-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-methylphenyl)-5-(methylthio)- (CA INDEX NAME)



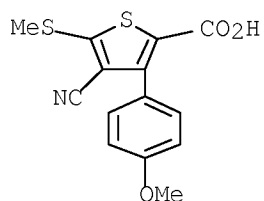
RN 116493-03-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(propylthio)- (CA INDEX NAME)



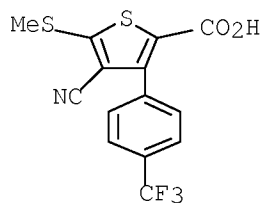
RN 116493-07-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-methoxyphenyl)-5-(methylthio)-
(CA INDEX NAME)



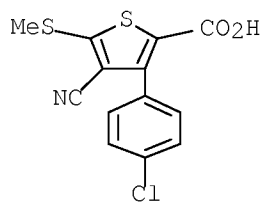
RN 116525-65-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 116525-66-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(methylthio)-
(CA INDEX NAME)



IT 63244-05-3P 116492-89-8P 116492-90-1P

116492-94-5P 116493-02-8P

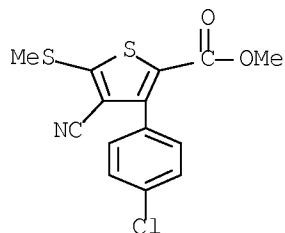
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation and saponification of)

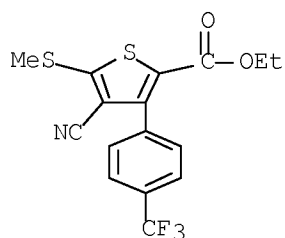
RN 63244-05-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(methylthio)-,
methyl ester (CA INDEX NAME)



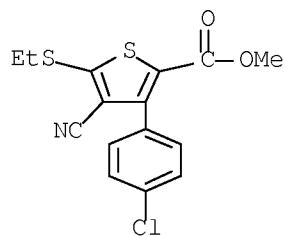
RN 116492-89-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



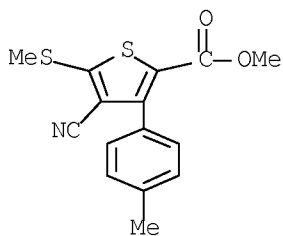
RN 116492-90-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(ethylthio)-,
methyl ester (CA INDEX NAME)



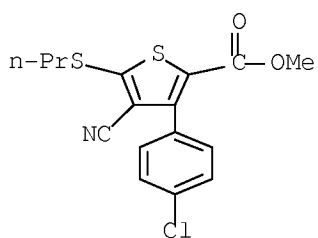
RN 116492-94-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-methylphenyl)-5-(methylthio)-,
methyl ester (CA INDEX NAME)



RN 116493-02-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(propylthio)-, methyl ester (CA INDEX NAME)

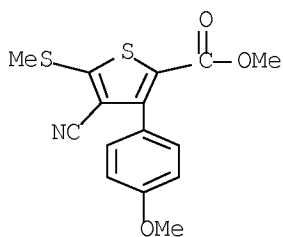


IT 63244-07-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(saponification of)

RN 63244-07-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-methoxyphenyl)-5-(methylthio)-, methyl ester (CA INDEX NAME)



L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:71982 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 90:71982

ORIGINAL REFERENCE NO.: 90:11387a,11390a

TITLE: Basic rearrangement of 2-methylidyne
thiazolidin-4-one. Part 2. Reactivity and biological
activity in the thiazole series

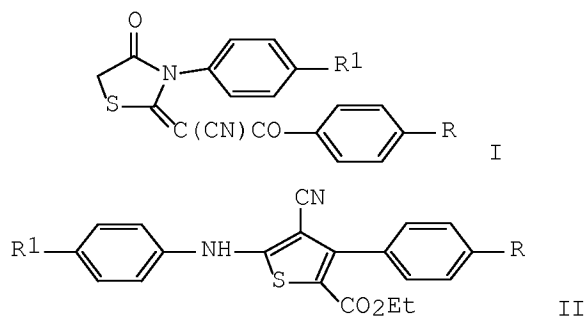
AUTHOR(S): Dehne, H.; Krey, P.

CORPORATE SOURCE: Sekt. Biol./Chem., Paedagog. Hochsch. "Liselotte
Herrmann", Guestrow, Ger. Dem. Rep.

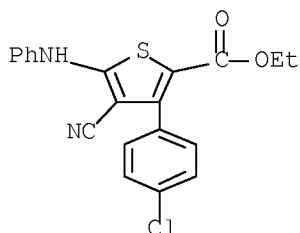
SOURCE: Pharmazie (1978), 33(10), 687-8

CODEN: PHARAT; ISSN: 0031-7144

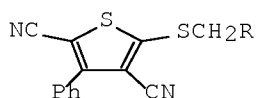
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



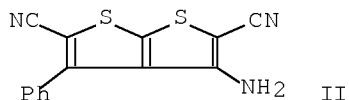
AB The thiazolidinones I (R = Cl; R₁ = H, Cl, Me) reacted with NaOEt in EtOH to give ring opening, followed by cyclization to II.
IT 69148-49-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 69148-49-8 CAPLUS
CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(phenylamino)-, ethyl ester (CA INDEX NAME)



L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:422912 CAPLUS Full-text
DOCUMENT NUMBER: 87:22912
ORIGINAL REFERENCE NO.: 87:3613a,3616a
TITLE: Thiophenes through S-alkylation
AUTHOR(S): Augustin, M.; Rudorf, W. D.; Schmidt, U.
CORPORATE SOURCE: Sekt. Chem., Martin-Luether-Univ., Halle, Ger. Dem. Rep.
SOURCE: Tetrahedron (1976), 32(24), 3055-61
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



I



II

AB 3-(Methylthio)-3-(substituted methylthio)-2-arylacrylonitriles, prepared from aroylacetonitriles by sequential treatment with CS₂/NaH and MeI/active methylene compound, cyclized in the presence of base to give 2-methylthio-3-cyano-4-arylthiophenes. E.g., PhCOCH₂CN with CS₂/NaH and MeI/ClCH₂CN gave 65.5% PhCOC(CN):C(SMe)SCH₂CN which with NaOMe gave 45% I (R = H). 2-(Substituted methylthio) analogs of I, prepared similarly by omission of MeI, cyclized to thieno[2,3-b]thiophenes. E.g., I (R = CN) gave 20% II. 2-Anilinothiophenes were prepared similarly by using PhNCS in place of CS₂.

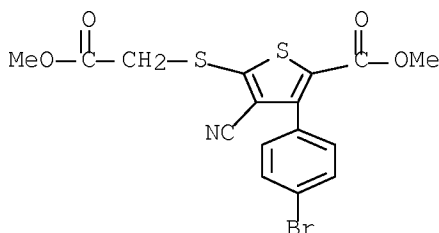
IT 63243-92-5P 63243-93-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ring closure of)

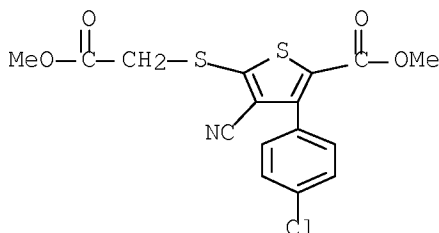
RN 63243-92-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-[(2-methoxy-2-oxoethyl)thio]-, methyl ester (CA INDEX NAME)



RN 63243-93-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-[(2-methoxy-2-oxoethyl)thio]-, methyl ester (CA INDEX NAME)

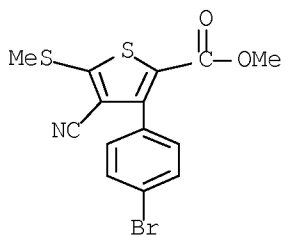


IT 63244-04-2P 63244-05-3P 63244-07-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

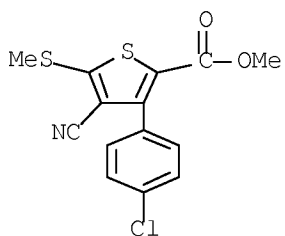
RN 63244-04-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-(methylthio)-, methyl ester (CA INDEX NAME)



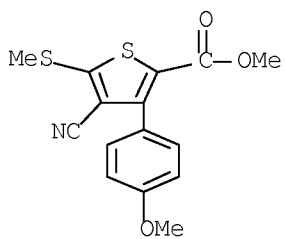
RN 63244-05-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-chlorophenyl)-4-cyano-5-(methylthio)-,
methyl ester (CA INDEX NAME)



RN 63244-07-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-methoxyphenyl)-5-(methylthio)-,
methyl ester (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 16:17:11 ON 02 APR 2008)

FILE 'REGISTRY' ENTERED AT 16:17:39 ON 02 APR 2008

| | |
|----|--------------------------|
| L1 | STRUCTURE UPLOADED |
| L2 | 19 S SSS SAM L1 |
| L3 | 506 S SSS FULL L1 |
| L4 | STRUCTURE UPLOADED |
| L5 | 3 S SSS SAM L4 SUB=L3 |
| L6 | 154 S SSS FULL L4 SUB=L3 |

FILE 'CAPLUS' ENTERED AT 16:22:36 ON 02 APR 2008

L7 10 S L6

L8 5 S L7 AND (AY<2004 OR PY<2004 OR PRY<2004)

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DICTIONARY FILE UPDATES: 1 APR 2008 HIGHEST RN 1011527-65-3

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<http://www.cas.org/support/stngen/stdoc/properties.html>

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ANSWER SET L3 HAS BEEN SAVED AS 'MANS10596419/A'

=> fil caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|---------------------|------------------|
| FULL ESTIMATED COST | 0.92 | 261.78 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -4.00 |

FILE 'CAPLUS' ENTERED AT 16:27:52 ON 02 APR 2008

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FILE COVERS 1907 - 2 Apr 2008 VOL 148 ISS 14
FILE LAST UPDATED: 1 Apr 2008 (20080401/ED)

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| E2 | 1 | US2006-596415/AP |
| E3 | 1 --> | US2006-596419/AP |
| E4 | 0 | US2006-596419/PRN |
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| E8 | 1 | US2006-596436/AP |
| E9 | 1 | US2006-596438/AP |
| E10 | 1 | US2006-596446/AP |
| E11 | 1 | US2006-596447/AP |
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L9 1 US2006-596419/AP

=> sel rn l9

E1 THROUGH E472 ASSIGNED

=> fil reg

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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 3.17 | 264.95 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -4.00 |

FILE 'REGISTRY' ENTERED AT 16:28:47 ON 02 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 1 APR 2008 HIGHEST RN 1011527-65-3
DICTIONARY FILE UPDATES: 1 APR 2008 HIGHEST RN 1011527-65-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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L3 506 S SSS FULL L1
L4 STRUCTURE UPLOADED
L5 3 S SSS SAM L4 SUB=L3
L6 154 S SSS FULL L4 SUB=L3

FILE 'CAPLUS' ENTERED AT 16:22:36 ON 02 APR 2008

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L8 5 S L7 AND (AY<2004 OR PY<2004 OR PRY<2004)

FILE 'REGISTRY' ENTERED AT 16:26:34 ON 02 APR 2008
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
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FILE LAST UPDATED: 1 Apr 2008 (20080401/ED)

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SEL RN L9

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L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:696900 CAPLUS Full-text

DOCUMENT NUMBER: 143:193903

TITLE: Preparation of thiophene and furan compounds for potentiating glutamate receptor function

INVENTOR(S): Castano Mansanet, Ana Maria; Dominguez-Manzanares, Esteban; Escribano, Ana Maria; Fernandez, Maria Carmen; Hornback, William Joseph; Jimenez-Aguado, Alma Maria; Tromiczak, Eric George; Wu, Zhipei; Zarrinmayeh, Hamideh; Zimmerman, Dennis Michael

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 249 pp.

CODEN: PIXXD2

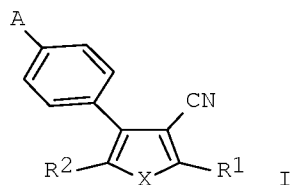
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|--------------|
| WO 2005070916 | A1 | 20050804 | WO 2005-US4 | 20050105 |
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| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1706395 | A1 | 20061004 | EP 2005-704861 | 20050105 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | |
| US 20070105852 | A1 | 20070510 | US 2006-596419 | 20060613 <-- |
| PRIORITY APPLN. INFO.: | | | EP 2004-380005 | A 20040109 |
| | | | US 2004-552080P | P 20040310 |
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| OTHER SOURCE(S): | MARPAT 143:193903 | | | |
| GI | | | | |



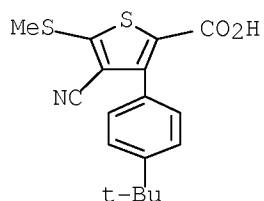
AB The title compds. I [C = S, O; R1 = H, F, Cl, Br, I, CHO, etc.; R2 = CN, CO2H, C(O)NHOH, etc.; A = OH, Br, I, CF3, etc.; and their pharmaceutically acceptable salts], useful in treating schizophrenia, cognitive deficits associated with schizophrenia, Alzheimer's disease, dementia of the Alzheimer's type, mild cognitive impairment, or depression (no biol. data given), were prepared. Thus, the hydrolysis of the corresponding Et ester afforded the thiophene-2-carboxylic acid I [X = S; R1 = CF3; R2 = CO2H; A = 2-(MeS)C6H4]. The pharmaceutical composition comprising the compound I is disclosed.

IT 861960-45-4P 861961-64-0P 861963-70-4P
861964-06-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiophene and furan compds. for potentiating glutamate receptor function)

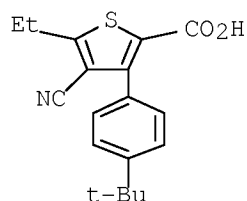
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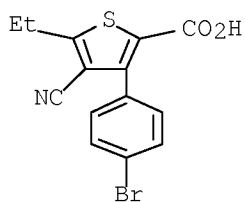
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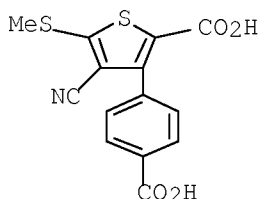
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CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-ethyl- (CA INDEX NAME)



RN 861964-06-9 CAPLUS

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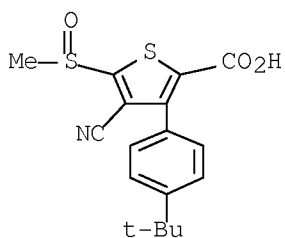
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of thiophene and furan compds. for potentiating glutamate
receptor function)

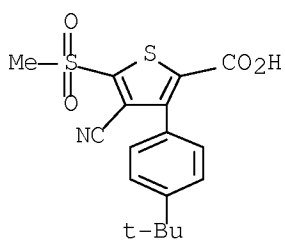
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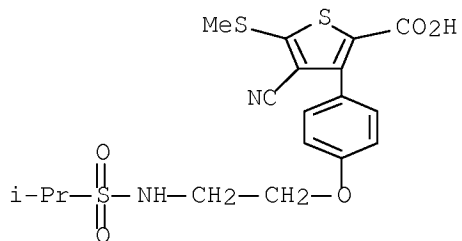
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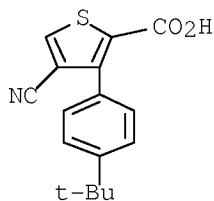
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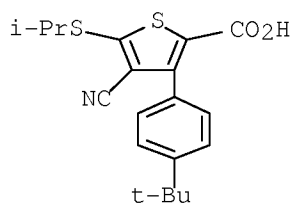
RN 861960-49-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



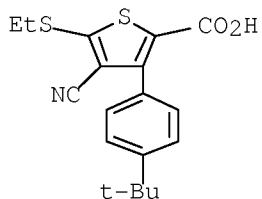
RN 861960-52-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]- (CA INDEX NAME)



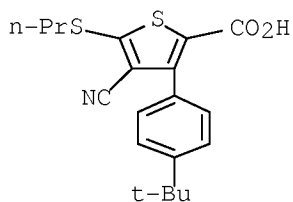
RN 861960-54-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(ethylthio)- (CA INDEX NAME)



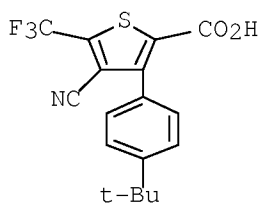
RN 861960-56-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(propylthio)- (CA INDEX NAME)



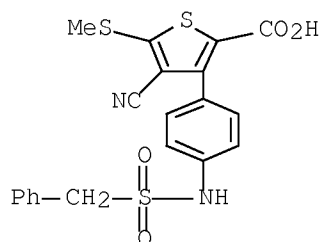
RN 861960-58-9 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)- (CA INDEX NAME)



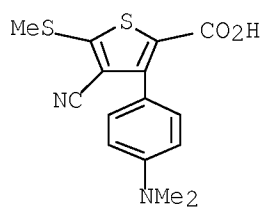
RN 861961-24-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-
[[(phenylmethyl)sulfonyl]amino]phenyl]- (CA INDEX NAME)



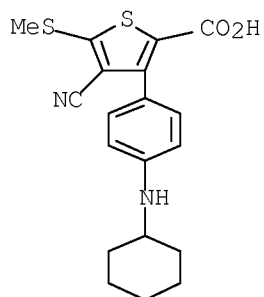
RN 861961-26-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(dimethylamino)phenyl]-5-
(methylthio)- (CA INDEX NAME)



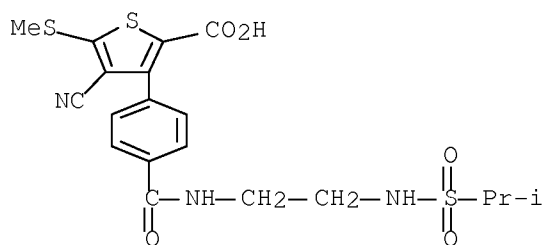
RN 861961-28-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclohexylamino)phenyl]-5-
(methylthio)- (CA INDEX NAME)



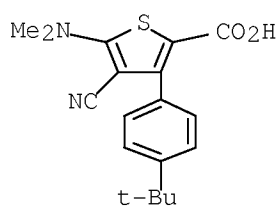
RN 861961-30-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[[[2-[[(1-
methylethyl)sulfonyl]amino]ethyl]amino]carbonyl]phenyl]-5-(methylthio)-
(CA INDEX NAME)



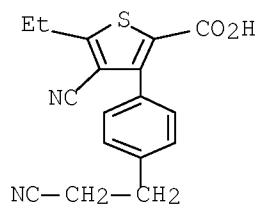
RN 861961-32-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



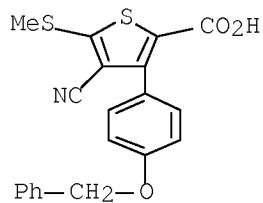
RN 861961-42-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyanoethyl)phenyl]-5-ethyl- (CA INDEX NAME)



RN 861961-99-1 CAPLUS

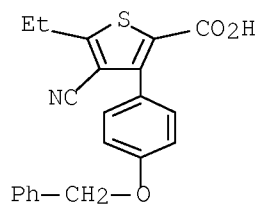
CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(phenylmethoxy)phenyl]- (CA INDEX NAME)



RN 861962-01-8 CAPLUS

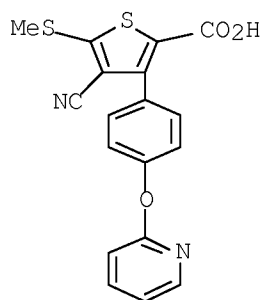
CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(phenylmethoxy)phenyl]-

(CA INDEX NAME)



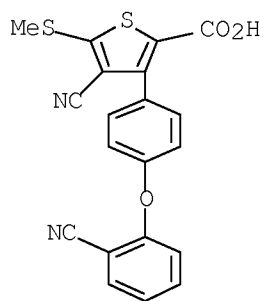
RN 861962-03-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(2-pyridinyloxy)phenyl]- (CA INDEX NAME)



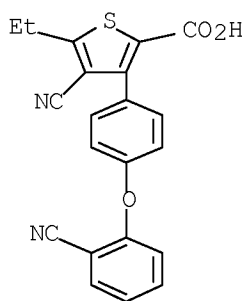
RN 861962-05-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyanophenoxy)phenyl]-5-(methylthio)- (CA INDEX NAME)



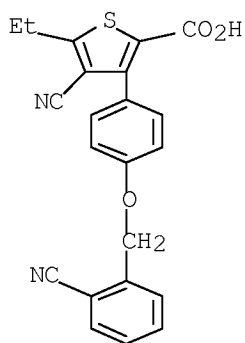
RN 861962-07-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(2-cyanophenoxy)phenyl]-5-ethyl- (CA INDEX NAME)



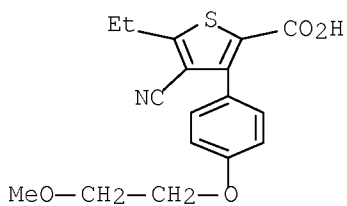
RN 861962-09-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyanophenyl)methoxy]phenyl]-5-ethyl- (CA INDEX NAME)



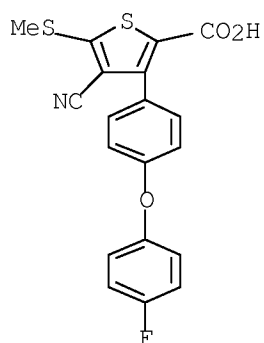
RN 861962-11-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-methoxyethoxy)phenyl]- (CA INDEX NAME)



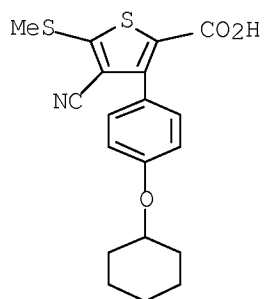
RN 861962-13-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(4-fluorophenoxy)phenyl]-5-(methylthio)- (CA INDEX NAME)



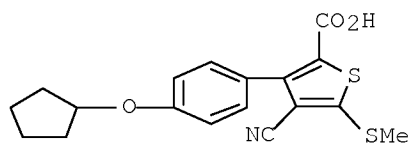
RN 861962-15-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclohexyloxy)phenyl]-5-(methylthio)- (CA INDEX NAME)



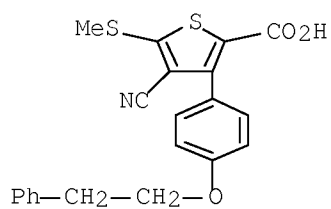
RN 861962-17-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclopentyloxy)phenyl]-5-(methylthio)- (CA INDEX NAME)

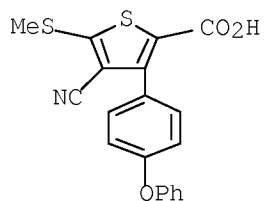


RN 861962-19-8 CAPLUS

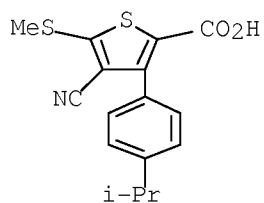
CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(2-phenylethoxy)phenyl]- (CA INDEX NAME)



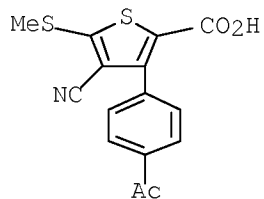
RN 861962-21-2 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-(4-phenoxyphenyl)-
 (CA INDEX NAME)



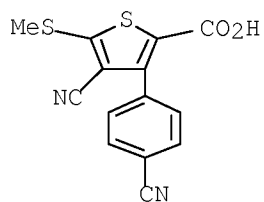
RN 861962-25-6 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1-methylethyl)phenyl]-5-(methylthio)- (CA INDEX NAME)



RN 861962-27-8 CAPLUS
 CN 2-Thiophenecarboxylic acid, 3-(4-acetylphenyl)-4-cyano-5-(methylthio)-
 (CA INDEX NAME)

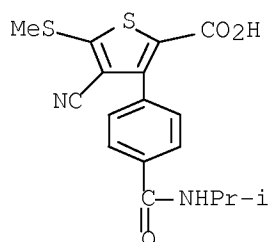


RN 861962-29-0 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-cyanophenyl)-5-(methylthio)- (CA INDEX NAME)



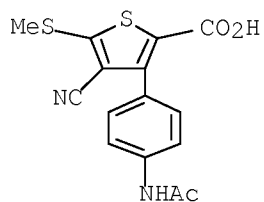
RN 861962-31-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[[4-(1-methylethyl)amino]carbonyl]phenyl]-5-(methylthio)- (CA INDEX NAME)



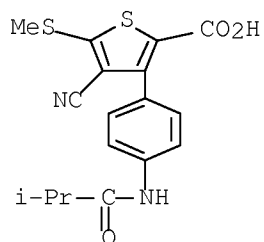
RN 861962-33-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(acetamido)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



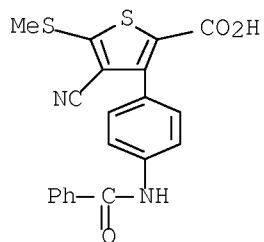
RN 861962-35-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-methyl-1-oxopropyl)amino]phenyl]-5-(methylthio)- (CA INDEX NAME)



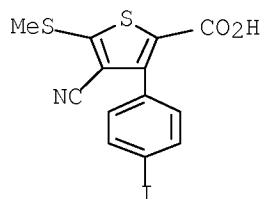
RN 861962-37-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(benzoylamino)phenyl]-4-cyano-5-(methylthio)- (CA INDEX NAME)



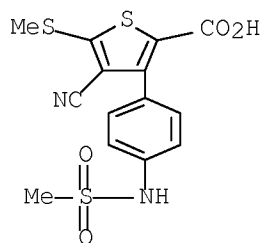
RN 861962-39-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(methylthio)- (CA INDEX NAME)



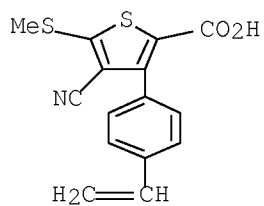
RN 861962-41-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(methylsulfonyl)amino]phenyl]-5-(methylthio)- (CA INDEX NAME)



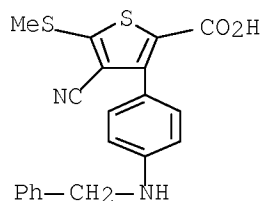
RN 861962-43-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-ethenylphenyl)-5-(methylthio)- (CA INDEX NAME)



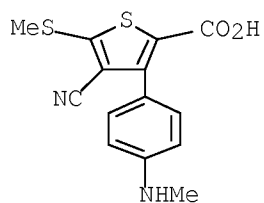
RN 861962-45-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-[(phenylmethyl)amino]phenyl]- (CA INDEX NAME)



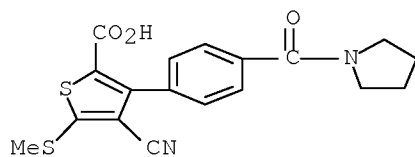
RN 861962-47-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(methylanino)phenyl]-5-(methylthio)- (CA INDEX NAME)



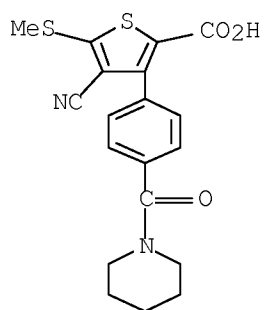
RN 861962-57-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)



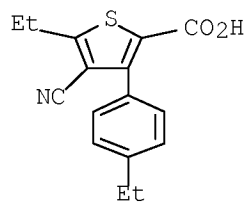
RN 861962-59-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-(1-piperidinylcarbonyl)phenyl]- (CA INDEX NAME)



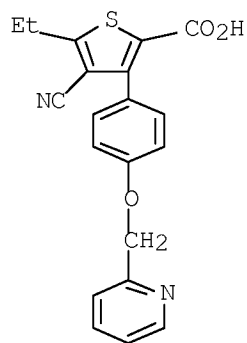
RN 861962-67-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-ethylphenyl)- (CA INDEX NAME)



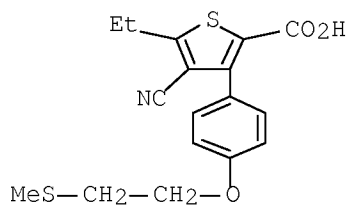
RN 861962-81-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(2-pyridinylmethoxy)phenyl]- (CA INDEX NAME)



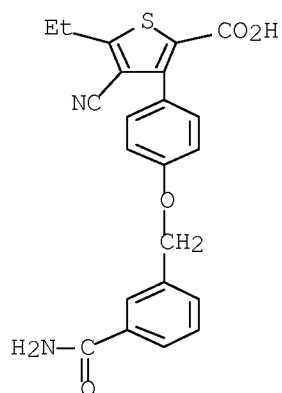
RN 861962-83-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[2-(methylthio)ethoxy]phenyl]- (CA INDEX NAME)



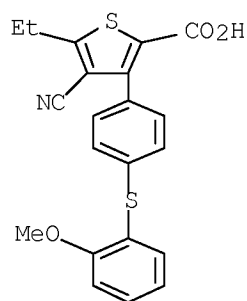
RN 861963-43-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[[3-(aminocarbonyl)phenyl]methoxy]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



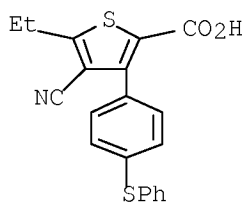
RN 861963-76-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(2-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



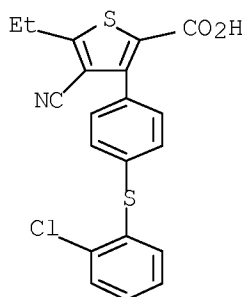
RN 861963-78-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(phenylthio)phenyl]- (CA INDEX NAME)



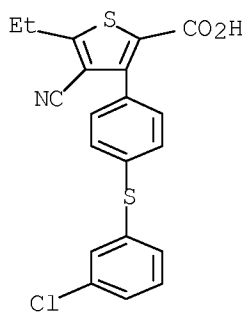
RN 861963-80-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[(2-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



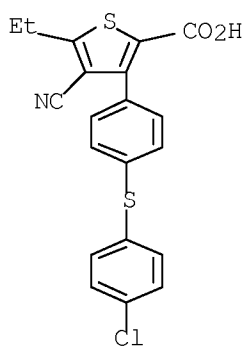
RN 861963-82-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[(3-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



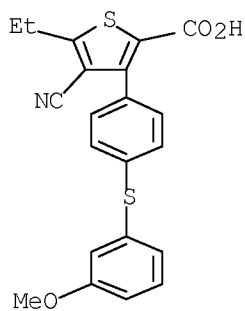
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CN 2-Thiophenecarboxylic acid, 3-[4-[(4-chlorophenyl)thio]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



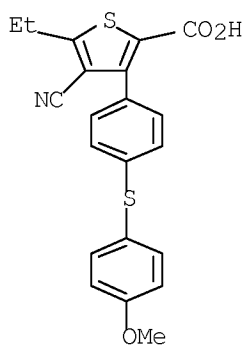
RN 861963-86-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(3-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



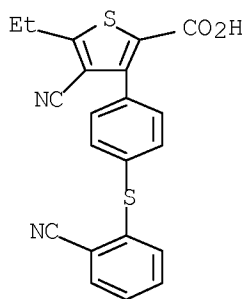
RN 861963-88-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(4-methoxyphenyl)thio]phenyl]- (CA INDEX NAME)



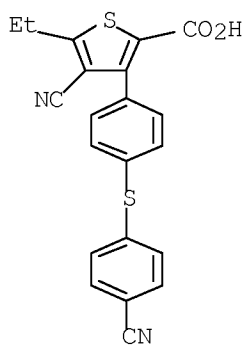
RN 861963-90-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyanophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



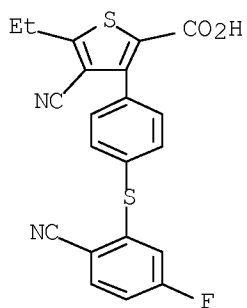
RN 861963-92-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(4-cyanophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



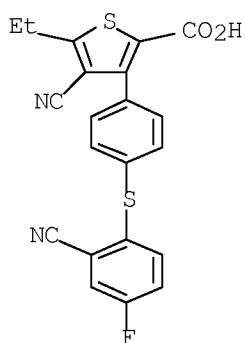
RN 861963-94-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyano-5-fluorophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



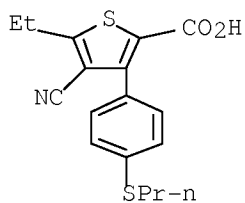
RN 861963-96-4 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyano-4-fluorophenyl)thio]phenyl]-5-ethyl- (CA INDEX NAME)



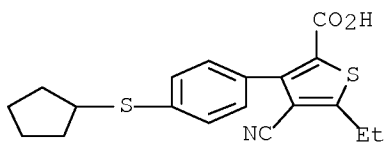
RN 861963-98-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(propylthio)phenyl]- (CA INDEX NAME)



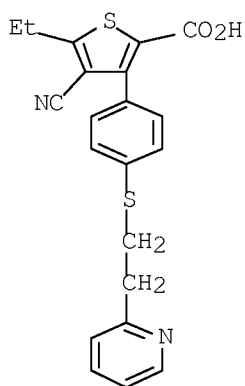
RN 861964-00-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(cyclopentylthio)phenyl]-5-ethyl- (CA INDEX NAME)



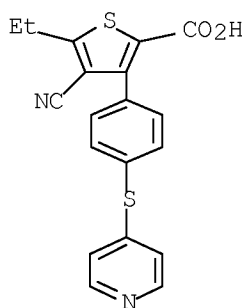
RN 861964-02-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[2-(2-pyridinyl)ethyl]thio]phenyl]- (CA INDEX NAME)



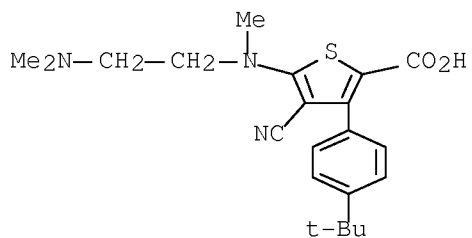
RN 861964-04-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4-pyridinylthio)phenyl]-
(CA INDEX NAME)



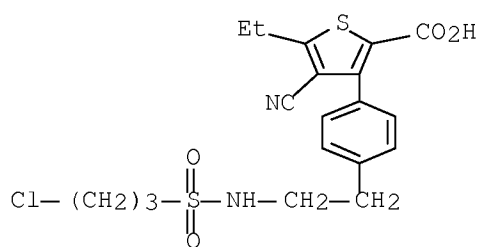
RN 861964-12-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-5-[[2-(dimethylamino)ethyl]methylamino]
]-3-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



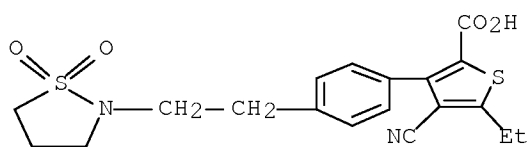
RN 861964-15-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[2-[[[(3-chloropropyl)sulfonyl]amino]ethyl]
]phenyl]-4-cyano-5-ethyl- (CA INDEX NAME)



RN 861964-17-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-(1,1-dioxido-2-
isothiazolidinyl)ethyl]phenyl]-5-ethyl- (CA INDEX NAME)

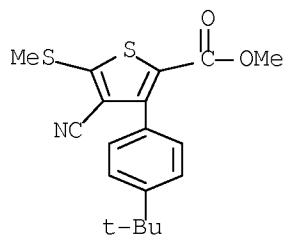


IT 861967-87-5 861967-88-6 861967-94-4
861967-95-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of thiophene and furan compds. for potentiating glutamate
receptor function)

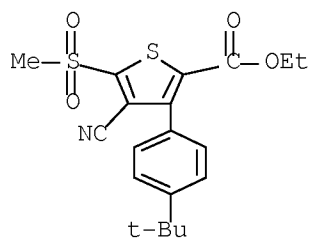
RN 861967-87-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
(methylthio)-, methyl ester (CA INDEX NAME)



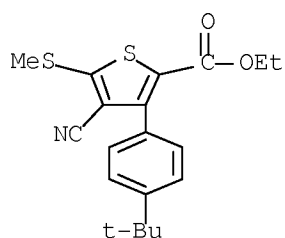
RN 861967-88-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-
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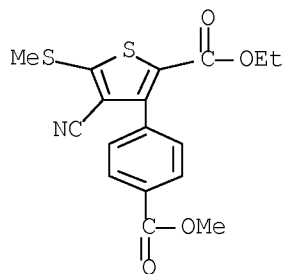
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



RN 861967-95-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(methoxycarbonyl)phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



IT 861966-71-4P 861966-74-7P 861966-77-0P
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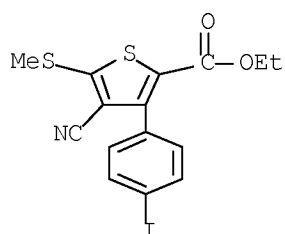
861967-71-7P

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(preparation of thiophene and furan compds. for potentiating glutamate receptor function)

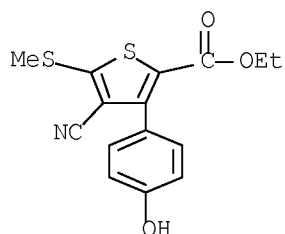
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(methylthio)-, ethyl ester (CA INDEX NAME)



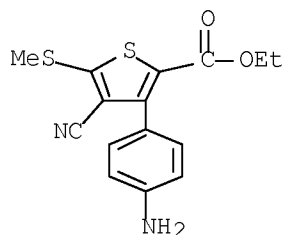
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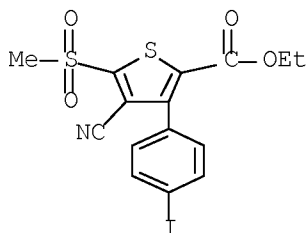
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CN 2-Thiophenecarboxylic acid, 3-(4-aminophenyl)-4-cyano-5-(methylthio)-, ethyl ester (CA INDEX NAME)



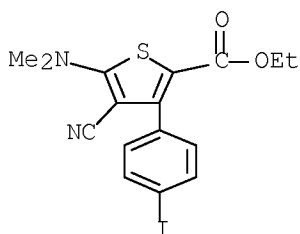
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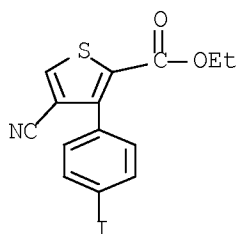
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(dimethylamino)-3-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



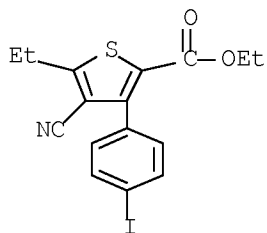
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



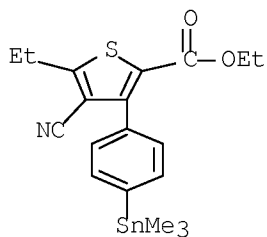
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



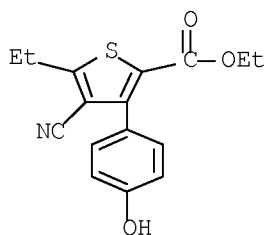
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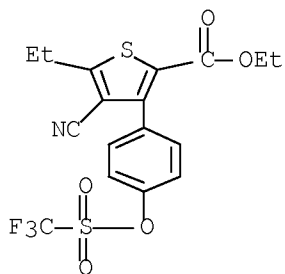
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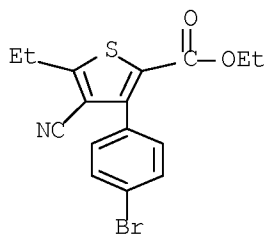
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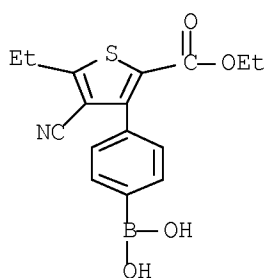
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CN 2-Thiophenecarboxylic acid, 3-(4-bromophenyl)-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



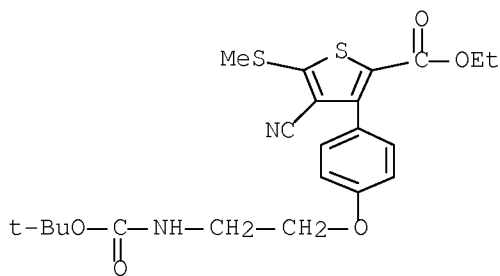
RN 861966-93-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-(4-boronophenyl)-4-cyano-5-ethyl-, 2-ethyl ester (9CI) (CA INDEX NAME)



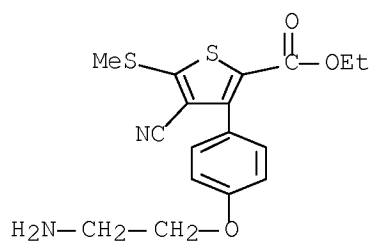
RN 861966-96-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-[[[1,1-dimethylethoxy)carbonyl]amino]ethoxy]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



RN 861966-98-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(2-aminoethoxy)phenyl]-4-cyano-5-(methylthio)-, ethyl ester (CA INDEX NAME)



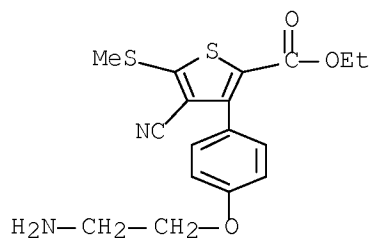
RN 861966-99-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-(2-aminoethoxy)phenyl]-4-cyano-5-(methylthio)-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 861966-98-5

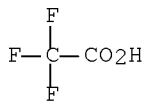
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CM 2

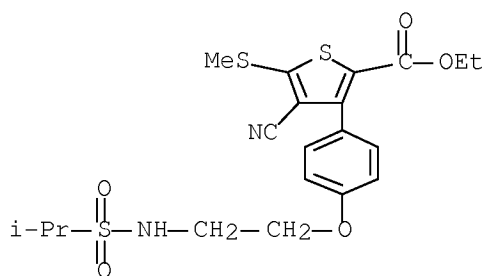
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CMF C2 H F3 O2



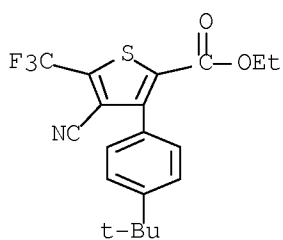
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-[[[1-methylethyl)sulfonyl]amino]ethoxy]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



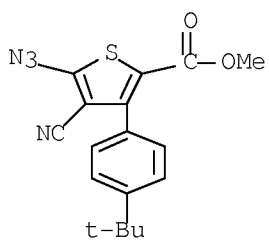
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



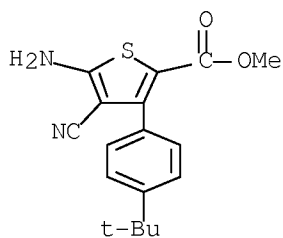
RN 861967-05-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-azido-4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-, methyl ester (CA INDEX NAME)



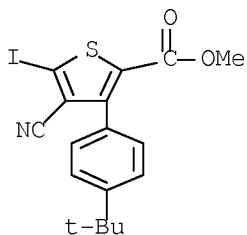
RN 861967-06-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-amino-4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-, methyl ester (CA INDEX NAME)



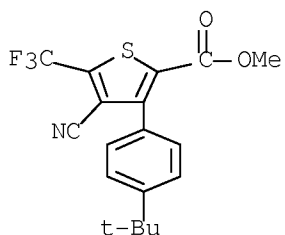
RN 861967-08-0 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-iodo-, methyl ester (CA INDEX NAME)



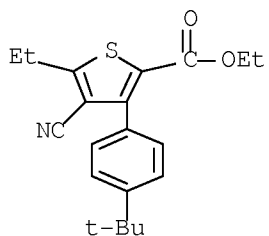
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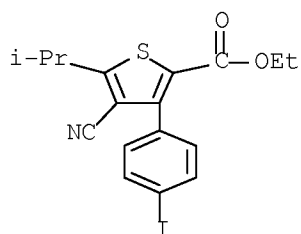
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-ethyl-, ethyl ester (CA INDEX NAME)



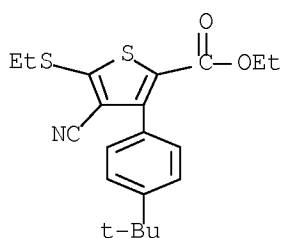
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-(4-iodophenyl)-5-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



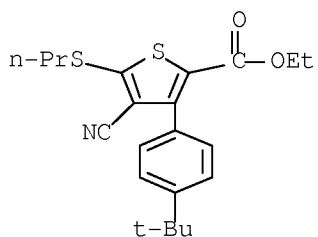
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-(ethylthio)-, ethyl ester (CA INDEX NAME)



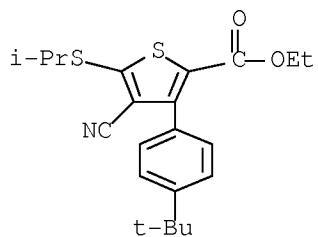
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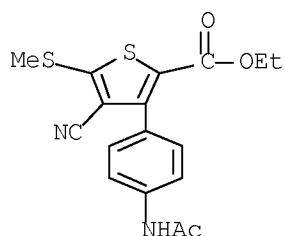
RN 861967-39-7 CAPLUS

CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-(1,1-dimethylethyl)phenyl]-5-[(1-methylethyl)thio]-, ethyl ester (CA INDEX NAME)



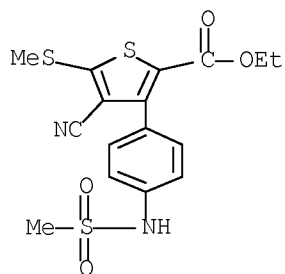
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CN 2-Thiophenecarboxylic acid, 3-[4-(acetylamino)phenyl]-4-cyano-5-(methylthio)-, ethyl ester (CA INDEX NAME)



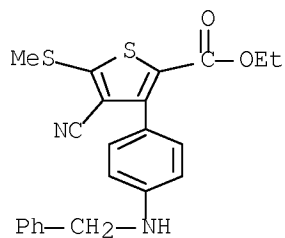
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(methylsulfonyl)amino]phenyl]-5-(methylthio)-, ethyl ester (CA INDEX NAME)



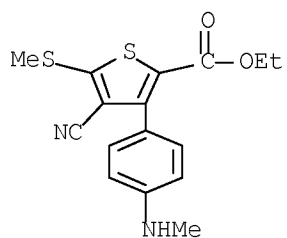
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-(methylthio)-3-[4-[(phenylmethyl)amino]phenyl]-, ethyl ester (CA INDEX NAME)



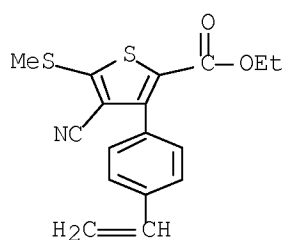
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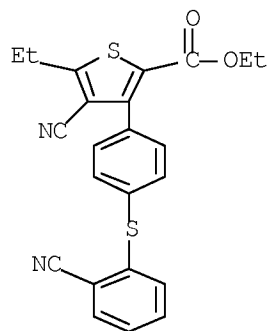
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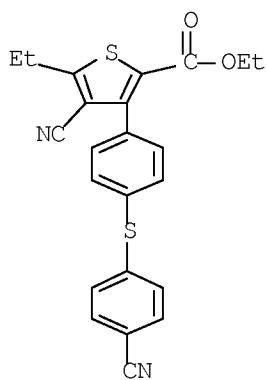
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CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[(2-cyanophenyl)thio]phenyl]-5-ethyl-, ethyl ester (CA INDEX NAME)



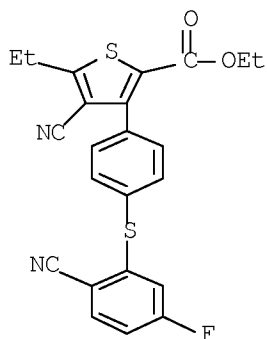
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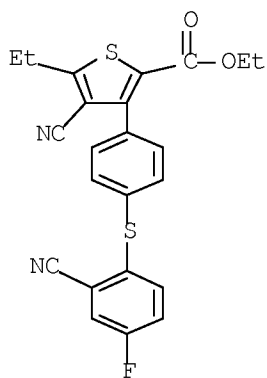
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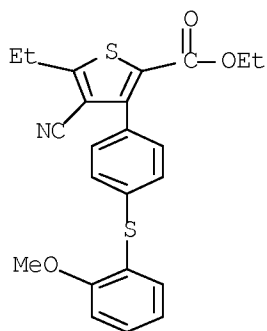
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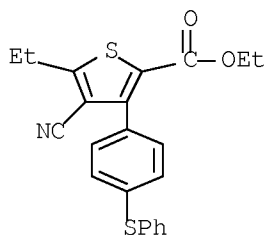
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(2-methoxyphenyl)thio]phenyl]-, ethyl ester (CA INDEX NAME)



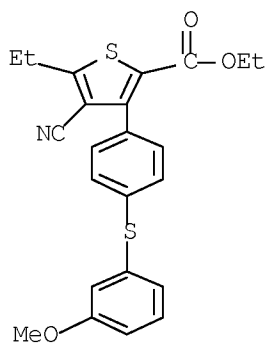
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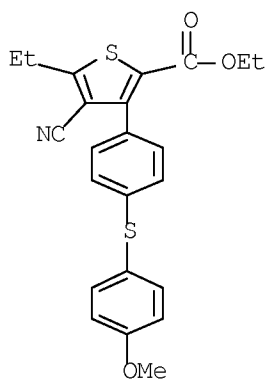
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[(3-methoxyphenyl)thio]phenyl]-, ethyl ester (CA INDEX NAME)



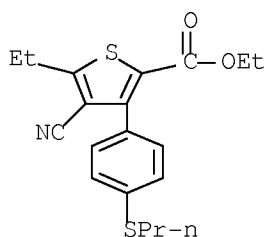
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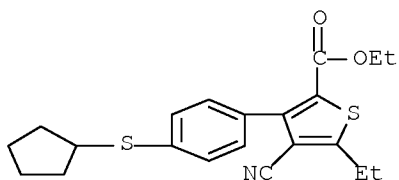
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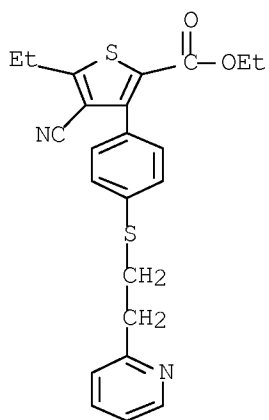
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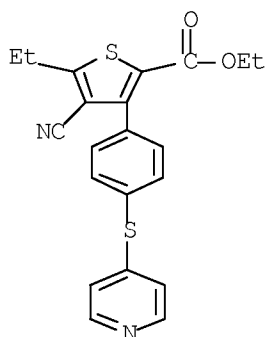
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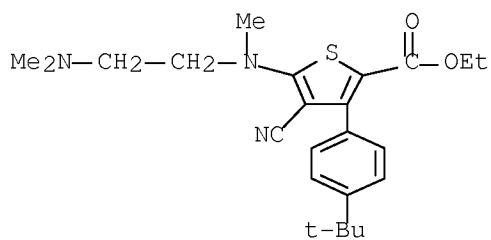
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CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-(4-pyridinylthio)phenyl]-, ethyl ester (CA INDEX NAME)



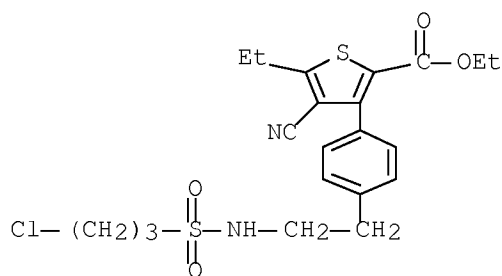
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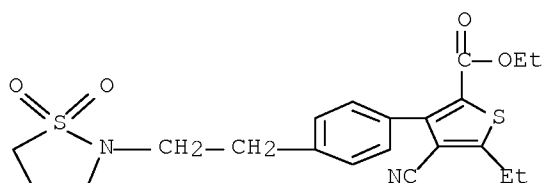


RN 861967-70-6 CAPLUS

CN 2-Thiophenecarboxylic acid, 3-[4-[2-[[[3-chloropropyl)sulfonyl]amino]ethyl]phenyl]-4-cyano-5-ethyl-, ethyl ester (CA INDEX NAME)



RN 861967-71-7 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-3-[4-[2-(1,1-dioxido-2-
 isothiazolidinyl)ethyl]phenyl]-5-ethyl-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 L3 506 S SSS FULL L1
 L4 STRUCTURE UPLOADED
 L5 3 S SSS SAM L4 SUB=L3
 L6 154 S SSS FULL L4 SUB=L3

FILE 'CAPLUS' ENTERED AT 16:22:36 ON 02 APR 2008

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L9 1 S E3
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 L12 116 S L10 AND L6

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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 13.73 | 286.13 |
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| | ENTRY | SESSION |
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